Paromax

EUROPA 75

Version:
AMERICA
(key pad)

Tested & Listed By OMNI-Test Laboratories, Inc. Portland Oregon USA

Report No. 120-S-01-2

Tested: **ASTM E1509-04,**
ULC S627-00,
ULC/ORD C1482-M1990

Efficency
94.5%
EPA
Certified

IMPORTANT : Read the manual before using the Europa

USER MANUAL & MAINTENANCE

WARNING:

PROFESSIONAL INSTALLATION
IS HIGHLY RECOMMENDED

Improper installation, adjustment, alteration, or maintenance can cause injury, property damage, or loss of life. For assistance or additional information, consult an authorized dealer.

Manufactured by **Paromax**
Blainville Qc
Canada J7C 5E2

IMPORTANT INFORMATION:

Model: _____

Serial Number: _____

Purchase date: _____

Purchased from: _____

Please note your serial number when calling for technical support (see page 4)

Ver. EUK-EN-A 12.09A September 2012

Please note the battery comes shipped inside the hopper. **Important:** remove the battery before start-up.

Congratulations!

MESSAGE TO NEW OWNER

Thank You ! We Appreciate Your Business

The quality of execution of each of our stoves will provide you peaceful years of comfort.
Three steps to follow for the safest and most efficient performance of the unit.

1- Install it properly 2- Operate it correctly 3- Maintain it regularly

PAROMAX : The Passion of Renewable Energy

The EUROPA is certified to burn: Premium Wood Pellets, Corn Kernels And Wheat Grains.

WARNING: Use Fuel Listed Only. That carbon monoxide can result from using fuels that are not recommended by Paromax.

Safety Advisory:

-A fire may result if your appliance is not properly installed. For your safety, follow the installation instructions.
-Contact local officials about restrictions and installation inspection requirements in your area.
-Local regulations and requirements can supersede those specified in this manual if more stringent.

The authority having jurisdiction (such as municipal building department, fire department, fire prevention bureau, etc.) should be consulted before installation to determine the need to obtain a permit.

The installation of this unit must be in accordance with these instructions. Read them carefully before installation. **Keep this manual handy for future reference.**

Package contents	
Quantity	**Description**
1	User manual and Installation
1	AC Power Inlet cord
1	Plastic Cup
1	Black alligator clip for battery
1	Red alligator clip for battery
1	Fuse 500MA
1	7 amp battery back up
1	Poker tool
1	Ash pan

WARNING: Please read this entire manual before installation and use of this multi-fuel burning room heater. Failure to follow these instructions could result in property damage, bodily injury or even death.

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Serial number of the unit

CONTACT YOUR LOCAL BUILDING OR FIRE OFFICIAL ABOUT RESTRICTIONS AND INSTALLATION INSPECTION IN YOUR AREA.

CONTACTEZ VOTRE BUREAU DE CONSTRUCTION OU D'INCENDIE AU SUJET DES RESTRICTIONS ET DE L'INSPECTION D'INSTALLATION DANS VOTRE QUARTIER.

Listed Room Heater, Pelletized Fuel Type
Also Suitable for Mobile Home Installation Pursuant to (UM) 84-HUD

Pieces Catalogué; Type - Poêle à Granule
Peut Être Utilisée Pour l'Installation Dans la Maison Mobile Sous (UM) 84-HUD

Tested & Listed By O-T-L Portland Oregon USA
OMNI-Test Laboratories, Inc.

Report No./Rapport Nu.: 120-S-01-2

Manufactured by/Manufacturé par:
Paromax, Inc.
900 Michele-Bohec Blvd., Suite 101
Blainville, QC, Canada J7C 5E2

Serial No./Nu. de Série **B**

"PREVENT HOUSE FIRES"

Install and use only in accordance with manufacturer's installation instructions and your local building codes.

CAUTION: Special methods are required when passing chimney through a wall or ceiling. Follow the pipe manufacturer's instructions and local building codes for the clearance to combustibles required for the installation of the vent pipe being used. Do not pass chimney connector through a combustible surface. Do not connect this unit to a chimney flue serving another appliance.

WARNING: (MOBILE HOME)

An outside air inlet must be provided for combustion and be unrestricted while unit is in use.

NOTE: Outside air is required.

Model: Europa 75

Tested to: ASTM E1509, ULC C1482-M1990, ULC S627-00

Type of Fuel: Corn, Wheat or Pelletized Wood Fuel Only

Electrical Rating: 120V, 2.5 Amps, 60 Hz

Input Rating: 7,600 to 34,000 BTU TYPICAL

NOTE: Replace glass only with 5mm ceramic.

Components required for residential and mobile home installation: Listed Pellet Vent.

DANGER: Risk of electrical shock. Disconnect power before servicing unit. Do not route power cord beneath heater.

"PRÉVENTION DES FEUX DE MAISON"

Installez et utilisez seulement en accord avec les instructions d'installation du manufacturier et des codes locaux.

AVIS: Des méthodes spéciales sont exigées lorsqu'une cheminée passe à travers un mur ou un plafond. Suivez les instructions du manufacturier du tuyau et les codes locaux de construction pour l'espace libre des combustibles exigé pour l'installation du tuyau de ventilation en usage. Ne passez pas le tuyau connecteur de cheminée à travers une surface combustible. Ne connectez pas cet appareil à un tuyau de cheminée servant un autre appareil.

ATTENTION: (MAISON MOBILE)

Un tuyau extérieur d'air doit être fourni pour la combustion et doit être sans restriction lorsque l'appareil est en usage.

NOTE: A besoin d'air de l'extérieur.

Modèle: Europa 75

Testé à: ASTM E1509, ULC C1482-M1990, ULC S627-00

Type de Gaz: Granules de Bois, Blé et Mais Seulement

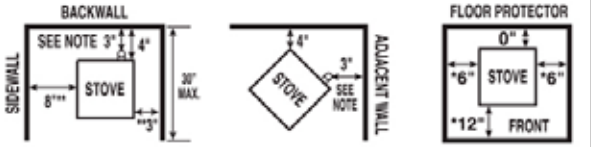
Évaluation Électrique: 120V, 2.5 Amps, 60 Hz

Évaluation Énergétique: 7,600 à 34,000 BTU Typique

NOTE: Remplacez la vitre avec de la céramique de 5mm seulement.

Produits exigés pour l'installation dans la maison résidentielle et mobile: Ventilation pour granules de bois catalouée.

DANGER: Il y a risque de choc électrique. Débranchez avant d'essayer de faire le service sur cet appareil. Ne pas faire passer la corde électrique en dessous de la fournaise.



NOTE: REGARDLESS OF THE STOVE CLEARANCE, VENT PIPE MUST ALWAYS HAVE A 3" CLEARANCE.

CHIMNEY AND CONNECTOR: 3" LISTED PELLET VENT ONLY.

FLOOR PROTECTOR MUST BE 3/8" MINIMUM THICKNESS NON-COMBUSTIBLE MATERIAL OR EQUIVALENT, EXTENDING BENEATH HEATER AND TO THE FRONT/SIDE AS INDICATED.

*IN CANADA, FLOOR PROTECTION MUST EXTEND 18" (407mm) TO THE FRONT, AND [illegible]mm) TO EACH SIDE OF THE STOVE.

** SIDE WALL TO UNIT	3 in. / 150 mm
MAX. ALCOVE DEPTH	30 in. / 760 mm
BACK WALL TO UNIT	4 in. / 176 mm
CORNER TO UNIT	4 in. / 176 mm

**Unit to sidewall requires 8" clearance for access to controls.

NOTE: PEUT [illegible]VE L'ESPACE LIBRE DU POÊLE LE TUYAU DE VENTILATION DOIT TOUJOURS AVOIR 3" D'ESPACE LIBRE.

CHEMINÉE ET CONNECTEUR DE VENTILATION DOIVENT ÊTRE CATALOGUÉ DE 3" SEULEMENT.

LE PROTECTEUR DE PLANCHER DOIT ÊTRE [illegible]8" D'ÉPAISSEUR MINIMUM DE MATÉRIEL NON-COMBUSTIBLE OU L'ÉQUIVALENT, S'ÉTENDANT EN DESSOUS DE LA FOURNAISE ET AU DEVANT/CÔTÉS AVANT COMME INDIQUÉ.

*AU CANADA, LA PROTECTION AU SOL DOIT DÉPASSER [illegible]mm) DEVANT DU POÊLE ET DE 8" (203mm) DE CHAQUE CÔTÉ.

** MUR DU CÔTÉ À L'APPAREIL	[illegible]pouces / 150 mm
MUR ARRIÈRE À L'APPAREIL	[illegible]pouces / 176 mm
PROFONDEUR MAXIMUM DE L'ALCÔVE	30 pouces / 760 mm
COIN À L'APPAREIL	4 pouces / 176 mm

**De l'appareil au mur exige 8" d'espace libre d'accès aux contrôles.

U.S. ENVIRONMENTAL PROTECTION AGENCY
Certified to comply with July 1990 particulate emission standards.

AGENCE DE PROTECTION ENVIRONNEMENTALE DES ÉTATS-UNIS
Certifié d'être conformé avec les standards d'émission de Juillet 1990.

DATE OF MANUFACTURE/DATE DU MANUFACTURIER

2009 2010 2011 Jan. Feb. Mar. Apr. May June July Aug. Sep. Oct. Nov. Dec.

DO NOT REMOVE THIS LABEL/NE PAS ENLEVEZ CETTE ÉTIQUETTE
Made in Canada/Fabriqué au Canada IGN

CAUTION: HOT WHILE IN OPERATION. DO NOT TOUCH. CONTACT MAY CAUSE SKIN BURNS. KEEP CHILDREN, CLOTHING AND FURNITURE AWAY. SEE NAMEPLATE AND INSTRUCTIONS. DO NOT OVERFIRE. IF HEATER OR CHIMNEY CONNECTOR GLOWS, YOU ARE OVERFIRING. INSPECT AND CLEAN CHIMNEY AND CONNECTOR FREQUENTLY. UNDER CERTAIN CONDITIONS OF USE, FLYASH BUILDUP MAY OCCUR RAPIDLY. MOVING PARTS MAY CAUSE INJURY.

WARNING: RISK OF SMOKE AND FLAME SPILLAGE. KEEP VIEWING AND ASH REMOVAL DOORS TIGHTLY CLOSED DURING OPERATION.

CAUTION: OPERATE THIS UNIT ONLY WITH THE FUEL HOPPER LID CLOSED. FAILURE TO DO SO MAY RESULT IN EMISSIONS OF PRODUCTS OF COMBUSTION FROM THE HOPPER UNDER CERTAIN CONDITIONS. MAINTAIN HOPPER SEAL IN GOOD CONDITION. DO NOT OVERFILL THE HOPPER.

AVIS: CHAUD LORSQU'EN OPÉRATION. NE TOUCHEZ PAS. TOUT CONTACT PEUT CAUSER DES BRÛLURES À LA PEAU. GARDEZ LES ENFANTS, LES VÊTEMENTS, LES MEUBLES À UNE DISTANCE CONSIDÉRABLE. LISEZ L'ÉTIQUETTE ET LES INSTRUCTIONS. NE PAS SURCHAUFFEZ. SI LA FOURNAISE OU LE TUYAU DE CHEMINÉE ROUGISSENT, C'EST QUE VOUS SURCHAUFFEZ. INSPECTEZ ET NETTOYEZ LA CHEMINÉE ET LE TUYAU FRÉQUEMMENT. SOUS CERTAINES CONDITIONS D'USAGE, LE [illegible] DU CENDRE PEUT SE FAIRE RAPIDEMENT. TOUTE PIÈCE MOBILE PEUVENT CAUSER DES BLESSURES.

ATTENTION: IL Y A RISQUE DE FUMÉE ET DE FLAMME. GARDEZ LA PORTE DE VUE ET CELLE DES CENDRES FERMÉES HERMÉTIQUEMENT DURANT L'OPÉRATION.

AVIS: OPÉREZ CET APPAREIL AVEC LE COUVERCLE DE LA TRÉMIE FERMÉ. SINON IL PEUT EN RÉSULTER DES ÉMISSIONS DES PRODUITS DE COMBUSTION DE LA TRÉMIE SOUS CERTAINES CONDITIONS. MAINTENEZ LE COUVERCLE DE LA TRÉMIE EN BONNE CONDITION. NE REMPLISSEZ PAS LA TRÉMIE TROP PLEINE.

COPY

The security label is located on the back panel of the unit.

SAFETY PRECAUTIONS

01- DO NOT BURN GARBAGE OR FLAMMABLE FLUIDS SUCH AS GASOLINE, NAPHTHA OR ENGINE OIL AND DO NOT USE CHEMICALS OR FLUIDS TO START THE FIRE

02- Do not store any combustibles near to the unit in operation. Minimum clearance from the unit and to store combustibles are 4 feet or 1.21 meter. Store the combustible in a dry place

03- Do not use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or freshen up a fire in this unit. Keep all such liquids well away from the unit while it is in use.

04- Do not operate the unit if the burn pot overfill with fuel. Turn off the stove and refer to the maintenance instruction.

05- Do not strike or slam shut the glass door, it may damage or crack the glass.

06- Do not use a substitute materials or components. Always replace by a Paromax part.

07- Do not operate the unit without burn pot " tube" and the top ring or in invert position (upside down).

08- Do not burn treated material. Other materials such as wood preservatives, metal foils, coal, plastic, garbage, sulphur, or oil may damage the catalyst.

09- Do not add combustible to the burn pot by hand when the unit is in operation.

10- Do not lay the ash pan on combustible floors when the ashes are hot.

11- It is very important to ensure that the unit is installed in a safe manner. Be aware of fire prevention rules and laws in your area. All applicable National and Local codes must be met and complied with. Notify your insurance company of this unit. Do not use makeshift methods or compromise in the installation.

12- We recommend a dealer authorized by Paromax to install your unit. If the unit is installed by an unauthorized installer, Paromax will not be held responsible for any malfunction related to the chimney including a poor performance of the unit.

13- The electrical connection required with the unit consists of AC power inlet cord to plug into a standard wall outlet (120 volts AC) with ground connection.

14- It is strongly recommended to install a smoke detector and an ABC type fire extinguisher near the unit. Using a power surge protector bar helps protect the electrical components of the unit and is highly recommended.

15- Your unit requires periodic maintenance and cleaning. Failure to maintain your stove may lead to a poor performance, smoke spillage in your home or even a more dangerous situation.

16- To start your unit, always use a specified and approved fire starter gel (gel approved for multi-fuel stove). Never use a flammable liquid like gasoline, barbecue fire starter or alcohol. Failure to comply with this may create a hazardous situation and will void all warranties.

17- Never attempt to re-light your unit until the unit has fully cooled down. Never start your unit with a gel fire starter when the burner is still hot, it could cause severe burns. Wait until the unit and the burner are completely cold before you turn it back on.

18- Manual feeding (primer) should only be used to initiate fuel supply to the burner when the hopper is empty. Do not use the manual feed procedure to start your unit, it will cause smoke inside the combustion chamber.

19- Ensure that the ash pan door is securely closed at all times. Air pressure could ignite the fuel accumulated in the burn-pot creating an overdraft condition in the combustion chamber altering the performance of the burn-pot.

20- The fuel supply will not operate if the main door or the hopper door are not closed.

21- The unit must be cold before any attempt to clean the main glasses. Do not use detergent containing abrasives to clean the windows or any other parts of the stove. Use only recommended products found at your local hearth shop for this type of cleaning.

22- Ashes must be disposed in a metal container with a tight lid and placed on a non-combustible surface well away from the house. Wear gloves when handling or emptying the ashes as it can still be very hot.

23- Never use a vacuum cleaner to remove ashes from the stove or the burner or the ash pan, unless the stove is cold for several hours.

24- Do not store or install the battery inside the unit. Risk explosion in case of heat.

Unit location

For optimum benefit with your appliance, speak to an authorized Paromax Dealer concerning the unit location.

The location for your appliance can be a factor in how it will perform. Choose an interior location where the pellet vent will not be affected by any external interference, ex; trees, bushes, walls or fencing (refer to “Vent Termination Requirements” section at page 10). Install the unit according to recommendations made on “clearances” section at page 10 or according to the safety label fixed on the unit.

Always use a pellet vent double wall type PL with a inside diameter of 3” / 7.6 cm or 4” / 10.2 cm maximum. You can pass the pellet vent system thru the wall behind the unit. Paromax recommend to use rigid pellet vent pipe up thru the existing chimney.

Ensure that all clearances to combustibles are met as per the safety label and the diagrams on “Clearances” section at page 9.

This appliance may need outside air if there is a negative pressure within the room. Make sure the outside air supply for the unit does not come from a garage, an attic or any restricted non-ventilated space.

The floor mat under the stove must be of non-combustible material, i.e. cement, ceramics, etc... and must extend 6” or 15.2 cm for the sides and front. **Refer to the diagrams on “Clearances” section at page 9.**

Requirement: Avoid any PL pellet vent quick connection (twist lock) in the attic or roof space, closet or similar concealed space, floor or ceiling. Do not use different brand or models of vent pipe on the same vent pipe installation.

WARNING: DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT. DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVICING ANOTHER APPLIANCE. DO NOT CONNECT TO ANY DISTRIBUTION DUCT OR SYSTEM.

Pellet vent size (PL)

IMPORTANT: Always use a double wall 3” / 7.6 cm or 4” / 10.2 cm PL type pellet vent approved for venting wood pellets fuel or agriculture fuel. A tight seal (silicone or aluminum tape) is recommended on each section of the pellet vent to prevent smoke leakage and odors. The pipe connecting to the unit and the outer wall joints located between the pipes also need to be sealed with high temperature silicone or aluminum tape. The maximum pellet vent height is 35 feet or 10.6 meter. Use a wall thimble for flammable wall or collar for cement wall. Seal the exterior pellet vent with silicone to create a vapor barrier.

It is not recommended to seal the inner walls joints already containing a pre-installed silicone or rubber sealant by the manufacturer of the pellet vent. Do not use a perforated outer wall pellet vent flue channeling fresh air to the burner.

WARNING: DO NOT INSTALL IN SLEEPING ROOM
CAUTION: THE STRUCTURAL INTEGRITY OF THE MANUFACTURED HOME FLOOR, WALL AND CEILING/ROOF MUST BE MAINTAINED

Chimney types (continued)

Since this is a multi-fuel unit, it is recommended to choose an approved venting system. If you choose wood pellets, a double wall 3” or 7.6 cm stainless steel pipes are recommended. For agriculture fuel, it is recommended to use double wall PL type 3” or 7.6 cm stainless with higher quality durability. Refer to the vent pipe manufacturer for more details.

Do not use a non-approved pipe for your vent system. i.e., Dryer vent, “B” vent for gas vent, PVC/plastic pipe or single wall chimney system.

Please note that the length of a horizontal venting system shall not exceed 24” or 61 cm.

Always vent to the outside atmosphere and never into enclosed spaces, i.e. garage, car port etc. Venting systems can generate heat and smoke.

WARNING: HOT UNIT WHILE IN OPERATION.
KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.
ANY CONTACT MAY CAUSE SKIN BURNS

Mobile home installation

Use PL type chimney for immediate evacuation outside the mobile home. Refer to the chimney diagram for proper exhaust installation. The space heater is to be connected to a factory-built chimney conforming to CAN/ULC-S629, standard for 650 degrees F or 343 degrees C. For proper clearances, remove outside sections of the chimney when displacing the mobile home. Outside air inlet must be provided for combustion and be unrestricted while unit is in use. Refer to outside inlet installation on page 8. The unit must be securely fastened to the floor by using one bolt in the front and two bolts in the back of the unit.

Recommendation: Chimney installation in a windy area must rise above the roof. It’s normal for ice build-up around the cap during cold or windy days.

High elevation

High altitude reduces air capacity to the burner. To help increase the air speed, a vertical chimney above the roof is recommended to create a natural air flow. Refer to the chimneys diagrams on page 11 and 12.

Negative pressure in the house or starvation air

The use of a bathroom fan, dryer, kitchen hood fan, etc, can create negative pressure, especially in new air tight homes. Combined, these fans consume three times more air than the combustion fan on the unit, and may create a significant drop of pressure therefore a lack of air to the burner that may cause a fire extinguishing. Paromax suggest you take a gauge reading before, during and after the use of your appliances and/or fans to check the pressure variations. If the pressure changes, Paromax recommends installing an outside air intake. Refer to fresh air installation for more information on page 8.

Outside inlet Installation (FA01 kit)

Use a coupling (pipe thread) to increase 1" - 2.5 cm to 2" - 5 cm, install a one way valve, maximum length is 5 feet or 1.5 meter. For more than 5 feet or 1.5 m, increase to 2.5" - 6.3 cm diameter for a maximum of 10 feet or 3 m total. Install cap with a grill to prevent rodent's intrusion.

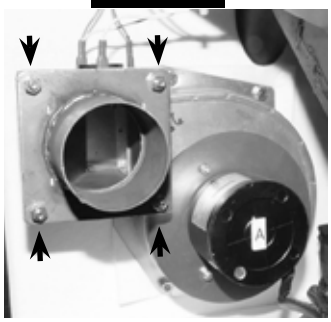
Note: Seal outside pipe joints and wall outlet with silicone to prevent water from entering. To view air inlet location, refer to page 9 (width picture).

Pressure regulator

Natural draft may create a malfunction due to increased pressure. If necessary, obtain a plate restriction from your dealer.

To install the plate restriction, refer to the image 1 to view the air outlet. There are 4 nuts and bolts to be removed from the air outlet by using a 7/16 or 11 mm wrench socket. Install the pressure regulator on the combustion fan air outlet; take care to replace the white seals on each side of the pressure plate. Replace the bolts, washers and nuts on the air outlet and tighten the bolts for a hermetic pressure regulator.

Image 1



Battery supplied with the unit

This battery will allow uninterrupted operation of your unit in case of power failure. Please note that this system does not replace the standard electrical power of 120 volt AC of the unit. This is a battery backup feature. When fully charged, it can last 4 hours or less depending on heat level setting (1-5) used. It is recommended to always leave the battery connected. The battery will be recharged when the power comes back.

For an extended performance, we suggest purchasing a 12 volt car battery for a longer use.

If a power outage occurs for more than 3 seconds and there is no battery connected, the fans will stop and there is a risk of smoke. When electricity is restored, the control panel will display the error code E3. If the unit is still hot, the fans will start to cool down the unit. In case of interruption of less than 3 seconds, the unit could continue to operate normally.

Option: To use the unit on 12 volt continuously as your main power, we recommend to by-pass the power inverter. Disconnect inverter the black wire identified on **COM** and the red wire identified on **V1** on the power inverter and then connect these wires directly to the 12 volt DC source. **The Warranty does not cover any polarity inversion that may damage the control panel** (see picture 36 on page 32).

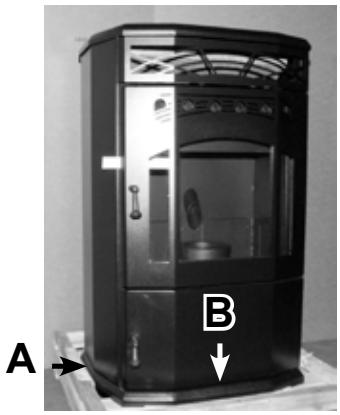
Notice: Your battery is provided with an insulation to prevent ground contact. To avoid any discharge, never sit the battery directly on the cement floor.

Step	Battery connection order to follow
1	Connect the **red** clip to the positive battery terminal **+**
2	Connect the **black** clip to the negative battery terminal **-**
3	Connect the battery **red** wire to the unit **red** wire.
4	Connect the battery **black** wire to the unit **black** wire.

WARNING: Children should be kept away from the hot unit.

Leveling your unit

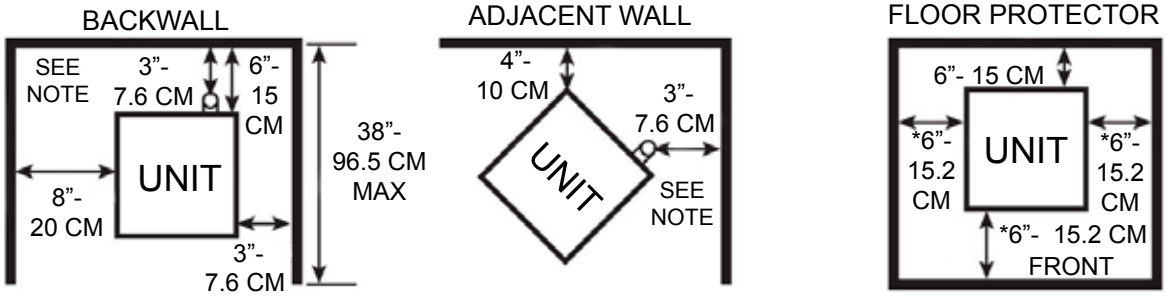
It is essential to level your unit for a stable fuel bed. First put a level on the side of the base (letter A) and use metal “spacer” to adjust the lowest side. And then, level the front by placing the level on the front of the base (B). When burning agriculture fuel, Paromax suggests increasing the height of the front of the unit by 1/4” to 3/8” or 6 to 10 mm. This modification helps to reduce ash accumulation in the front of the burner.

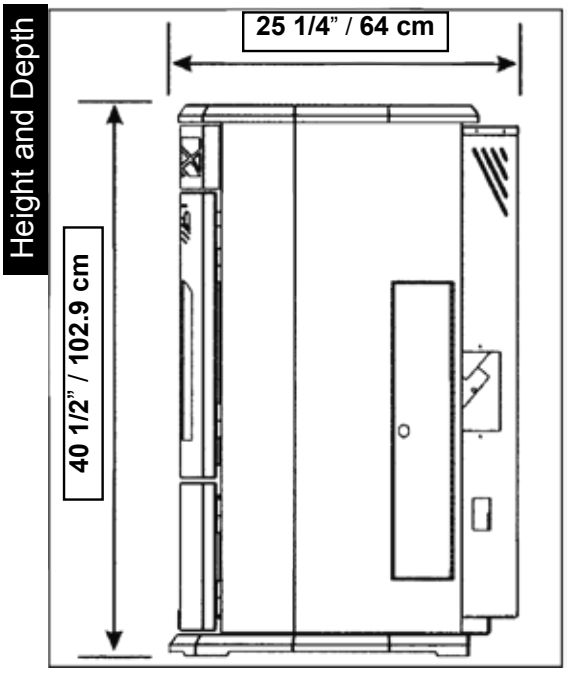


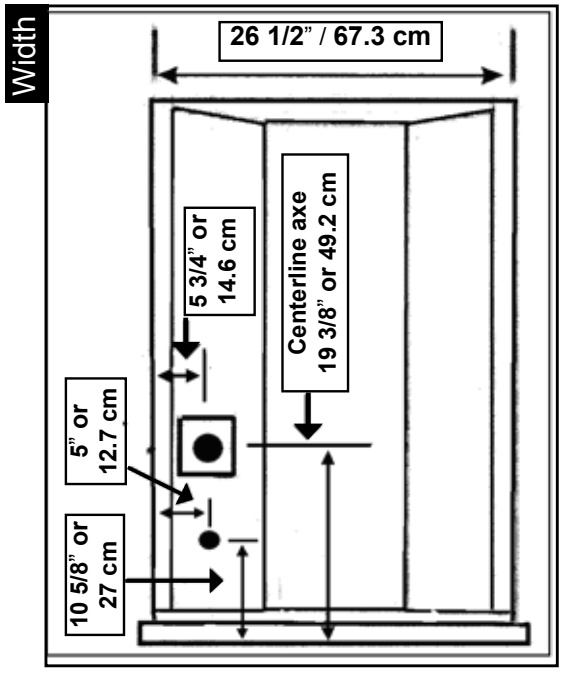
Thermostat installation for the EUROPA

For thermostat use, purchase a thermostat supply by battery (AA or AAA batteries or 9 volt) or a mercury thermostat or wireless thermostat. Connect the thermostat to purple wires that are located near the control panel inside the unit. **See thermostat operation mode on page 21**

Clearance of the EUROPA







IT IS RECOMMENDED THAT YOUR PELLET STOVE BE INSTALLED BY A PAROMAX AUTHORIZED DEALER/INSTALLER.

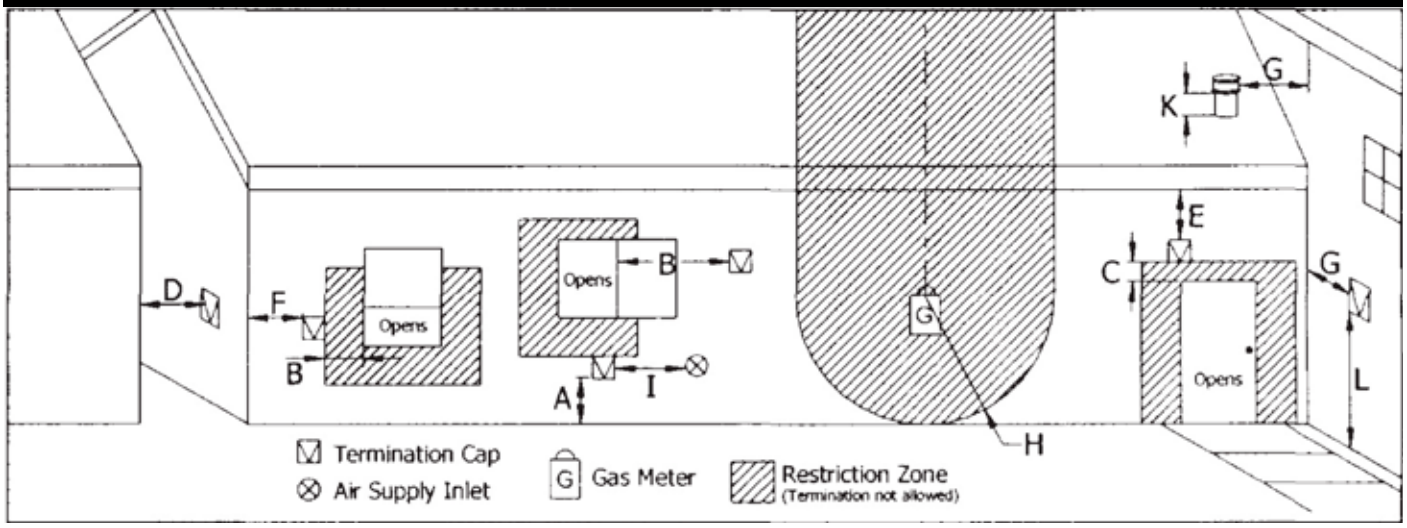
CLEARANCE TABLE: Use in conjunction with diagram on page 11 for allowable exterior vent locations for both horizontal and vertical terminations. Clearances may only be reduced by means approved by a regulatory authority.

	Minimum	Description
A	24” / 61 cm	Above lawns, top of plants, wood or any other combustible materials.
A	12” / 30.5 cm	Above non-combustible surface such as cement and gravel.
B	48” / 122 cm	From beside/below any door or window that may be opened.
C	12” / 30.5 cm	From above any door or window that may be opened.
D	24” / 61 cm	To any adjacent building, fences and protruding parts of the structure.
E	24” / 61 cm	Below any eaves or roof overhang.
F	12” / 30.5 cm	To outside corner.
G	12” / 30.5 cm	To inside corner, combustible wall (vertical & horizontal terminations).
H	36” / 91.5 cm	To each side of center line extended above natural gas or propane meter/regulator assembly or mechanical vent within a height of 14’ 1/2” or 4.5 m above the meter/regulator assembly.
I	36” / 91.5 cm	From any forced air intake of other appliance.
J	12” / 30.5 cm	Clearance to non-mechanical air supply inlet to building or combustion air inlet to any appliance.
K	24” / 61cm	Clearance above roof line for vertical terminations.

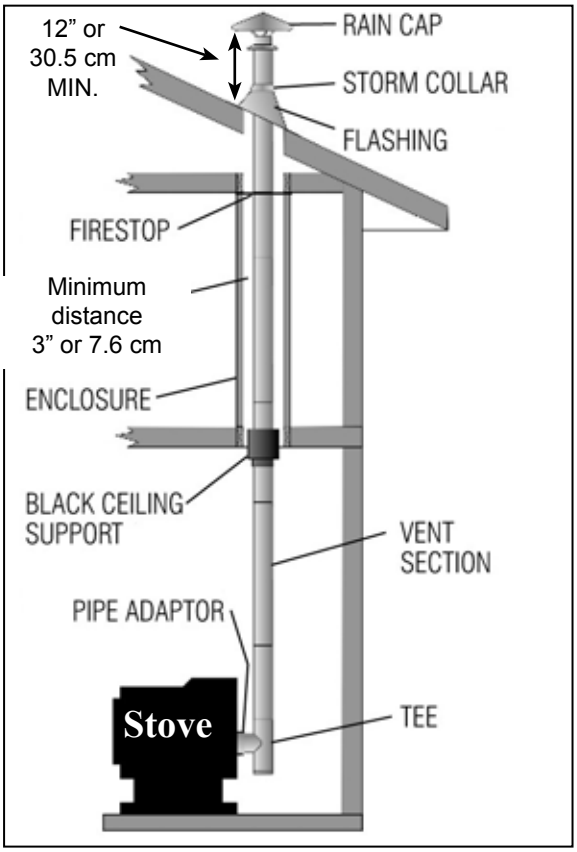
NOTES :

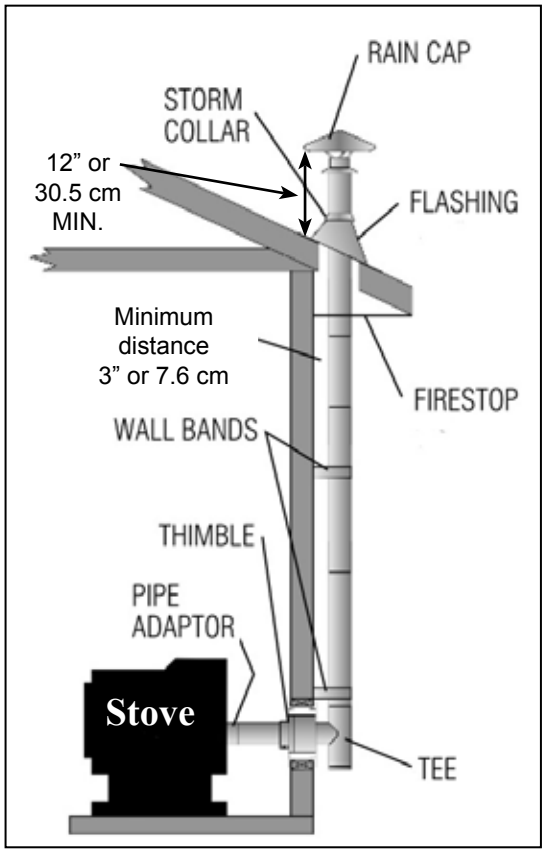
1. Do not terminate the vent in any enclosed or semi-enclosed areas that can build up a concentration of smoke.
2. Vent surfaces can become extremely hot. Keep children away from such areas. Non-combustible shielding or guards may be required.
3. Termination must exhaust above sea level and the inlet elevation. It is recommended to have a short vertical run which will help in the event of total power failure.
4. If the unit is incorrectly vented or the air to fuel mixture is out of balance, a slight discoloration of the exterior of the house might occur. Since these factors are beyond our control we offer no guarantee against such incidents.
5. When installing into an existing masonry chimney, you will probably need a short horizontal section to clear the lintel and allow the hopper lid to open.
6. Vent terminations shall not be recessed into walls or siding.
7. A vent shall not terminate directly above a sidewalk or paved driveway which is located between two single family dwellings and serves both dwellings.
8. If the vent termination is children accessible, a certified guard shall be installed as specified in CGA B149 installation Code in Canada. Note: Local codes or regulations may require different clearances.

Minimum clearances table for a wall installation



INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENT MANUFACTURER
Refer to the norm CAN/CSA-B365-01 before installing the vent.





Equivalent Vent length (EVL)

Venting your unit is crucial for optimum operation. There are five different installation examples recommended by Paromax.

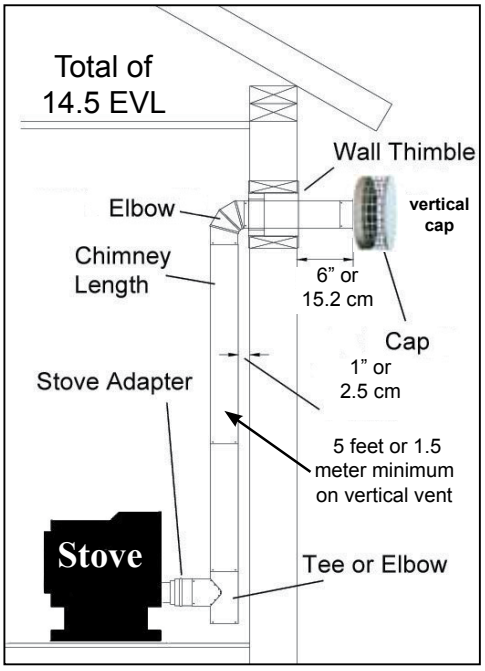
The unit uses the combustion fan to move air from the exhaust to the chimney.

(Next on page 12)

Restriction may come from several different items. Each 45 degree elbow = 3 EVL
Each 90 degree elbow and tee clean out = 5 EVL
Each foot of horizontal run = 1 EVL
Each foot of vertical run = 0.5 EVL

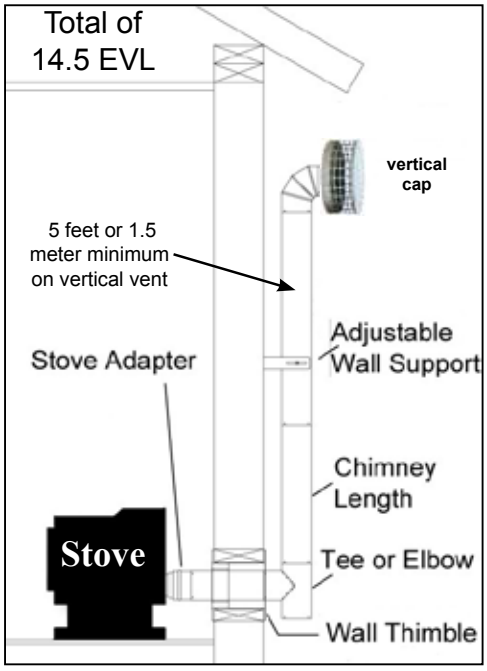
Higher Altitude 3000 ft or 914 m: The vent pipe must be above the roof. If the EVL are **Inferior** to 15, install a vent pipe of 3" or 7,6 cm. If the EVL are **superior** to 15, install a vent pipe of 4" or 10,2 cm.

Lower Altitude 2999 ft or 913 m: For the other installation with a vent pipe of 3" or 7,6 cm, the installation rule is the sum of 15 EVL or less. For a superior sum of 15 EVL and up, install a vent pipe of 4" or 10,2 cm.

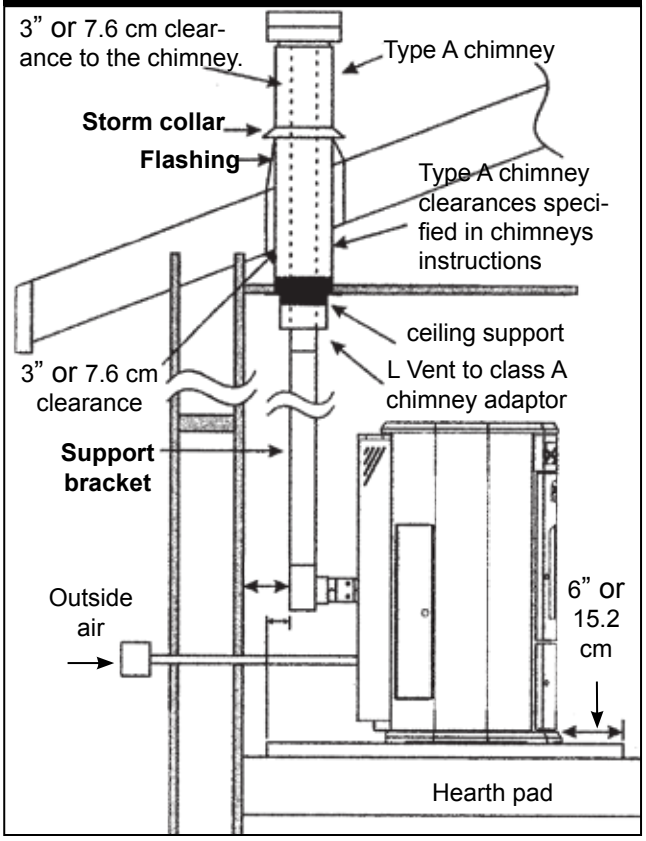


Vertical cap recommended

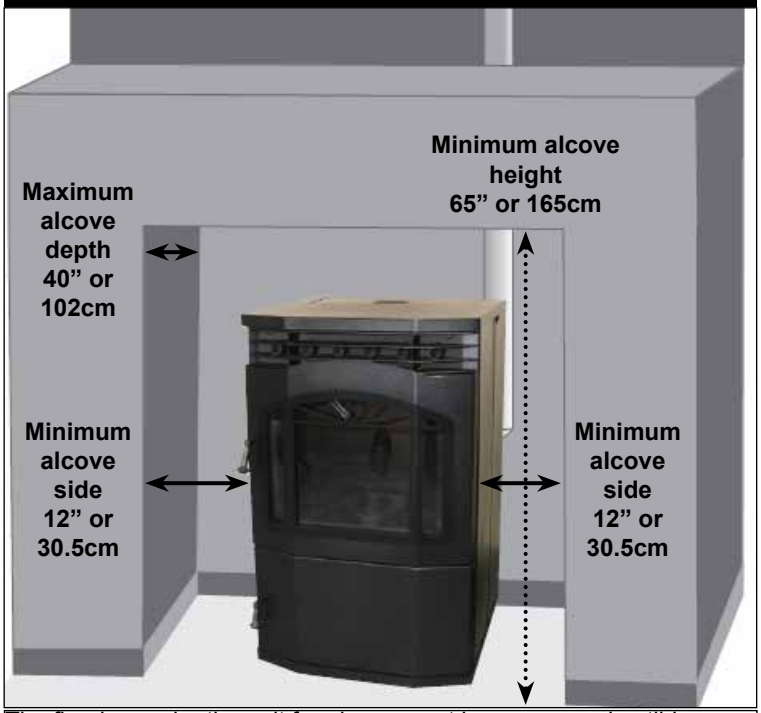
Sealing off the top and bottom of existing chimney with the new pipe is recommended



3" or 7.6 cm pipe in an existing chimney

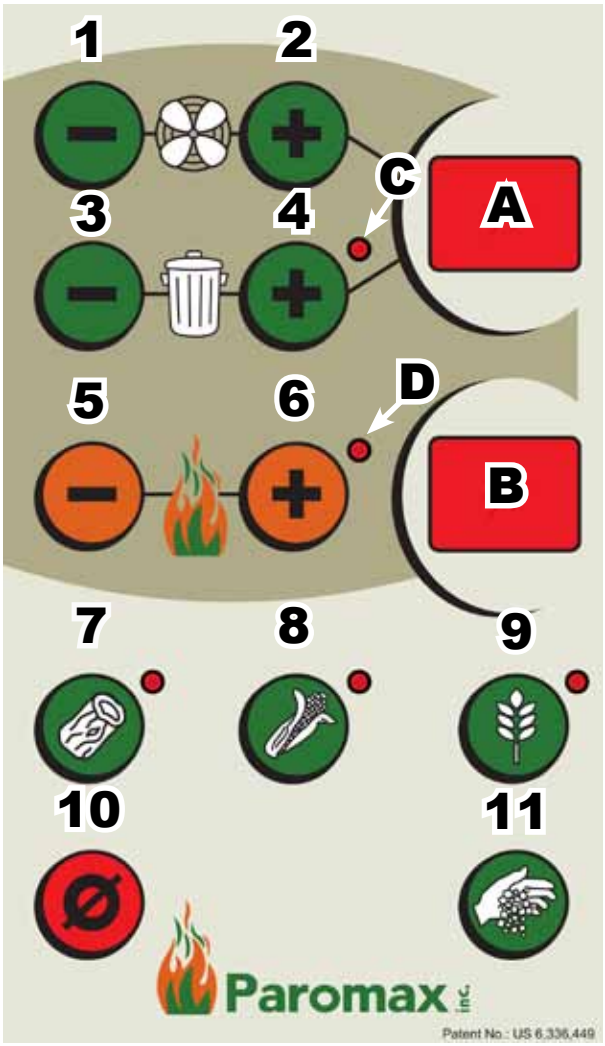


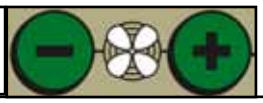
Alcove installation For Europa


Maximum alcove depth 40" or 102cm
Minimum alcove height 65" or 165cm
Minimum alcove side 12" or 30.5cm
Minimum alcove side 12" or 30.5cm

The flooring under the unit for alcove must be a non-combustible material, i.e. cement, ceramics, etc, and must extend of at least 6" or 15.2 cm for the sides and 12" or 30.5 cm for the front. Refer to the diagrams on "Clearances" section at page 9.

The control panel



Combustion air adjustment	

To access the combustion air display: press on one of the two fan icons. To adjust the incoming air to the burner, press the green icon identified by 1 (minus) or 2 (plus) to decrease or increase the combustion chamber pressure related to the pressure gauge (mini-helic).

Note: Setting 5 is set by default. Setting 1 to 10 is available for adjustments. For more details, refer to chapter and chart on pressure gauge at page 20.

Ash extraction adjustment

To access ash removal settings: press on one of the two trash icon to adjust the quantity of ash removed. Press the green icon identified by 3 - (minus) or 4 + (plus) to decrease or increase the fuel bed height in the burner. For more details, refer to page 19.

Note: Each type of pellet or agriculture fuel produces its own quantity of ash content per hour. Setting 15 is set by default; setting 10 to 20 are available for adjustments. The ash system is on when the light identified C is on.

Heat level adjustment

To access the heat level display, press on one of the two flame icons to adjust the heat level settings. Press the green icon identify 5 - (minus) or 6 + (plus) to decrease or increase the desired heat level.

Note: Level 1 is regulated with a flow of approximately 1 lb. or .45 kg of fuel per hour and level 5 is regulated with a flow of approximately 4 lbs or 1.81 kg of fuel per hour. The feed system is on when the light identified D is on.

Wood pellet combustible

Use the green icon identified by number 7 to start the unit with the Wood pellets software only.

Corn combustible

Use the green icon identified by number 8 to start the unit with the Corn software only.

Wheat combustible

Use the green icon identified by number 9 to start the unit with the Wheat software only.

Stop

Icon 10 : Is used to stop the unit. Display B will show C1, the feed system will stop and the cleaning mode will be activated immediately to evacuate the ashes accumulated in the burn-pot. The C2 mode controls the cooling mode and will automatically close the fans when the stove is cold enough.

Manual feed

Manual feed: Use the icon 11 to fill the feed system (primer) only at a first startup or when the unit was turned off by lack of fuel. The **UU** letters will be displayed for 90 seconds. Make sure all doors are closed when the manual feed procedure is in operation. Never start the unit with this mode.

Feed rate calibration

The calibration of the fuel features are not accessible when the unit is in start-up mode (A1 and A2). To activate this mode, press the icon 11 for 10 seconds approx, a new configuration will appear on display A (0 by default). This calibration can decrease or increase the amount of fuel per hour, ranging from -3 to +3. Refer to page 20 and 21 for more information.

Important: Setting -3, -2 and -1 are not functional for heat level 1 and setting +1, +2, +3 are not functional for heat level 5.

Display A & B

Display A shows both the level of the combustion fan level (Icon 1 & 2) and ash removal level (Icon 3 & 4). The Combustion Air display will appear when icons 1 or 2 are pressed (1 to 10 setting). The Ash Extractions display will appear when Icons 3 or 4 are pressed (10 to 20 setting).

Display B shows heat levels (1 to 5) and the cleaning mode (C1 and C2) as well as the error codes.

A screen saver is activated after 1 minute. To deactivate this mode, press one of the green or orange icons (1 to 9). The key pad will then be accessible to change settings.

Red light C and D

When the light C is red, it shows that the feed system is in operation.
When the light D is red, it shows the ash removal system is in operation.

Convection fan

This fan is used to propel hot air into the room. There is no adjustment for the convection fan. The convection fan is factory set and is controlled by the heat level selected (1-5).

WARNING: DO NOT START THE UNIT IF THE GLASS DOOR IS CRACKED OR BROKEN AND NEVER CLEAN THE GLASS WHEN IT IS STILL HOT.

First start up

At its first use, the unit will release a smell caused by the paint and the burning of oily substances used in its manufacture. It may activate the smoke detectors. Open windows to vent.

NOTE: Since the glass door is cold when the unit is turned on, condensation may temporary settle on the glass.

WARNING: Never use the manual feed procedure to start your unit.
Caution: May cause smoke issues in the combustion chamber.

Lighting on your unit

1. Whatever the fuel used, it is recommended to start the unit with wood pellets. This will quickly raise the vent temperatures for a better and faster start up. Failure to use wood pellets could result in slow and difficult lighting procedures. Before each startup, make sure the burn pot and the ash pan are completely empty.
Note: Never attempt to start a fire if the burner is hot and completely full of ashes.

WARNING FOR EMPTY HOPPER:
Starting the unit without first activating the manual feed (primer) can generate smoke in the unit.

Image 2

2. After filling the hopper, press the hand icon (11) to activate the manual feed (primer). All doors must be closed. The manual feed procedure will be in operation for approximately 90 seconds to fill the feed system and few pellets will drop into the burner.

3. How to start the unit: Open the main door, fill the cup with wood pellets and drop the pellets into the burner. Sprinkle generously the pellets in the burner with an approved fire starter gel and mix well with the poker tool. Next, use a **match** to light the fire starter in the burner and close the main door. Press the start icon (7, 8, or 9) of your choice. A1 will be displayed for a total of 4 minutes and the combustion fan will start.

Some fire starter gels have a low alcohol content which will result in a weak start-up

4. A1 and A2 mode will scroll on the screen for a total of 8 minutes for wood pellets and 25 minutes for corn or wheat. Note that the Stop icon is accessible at all time. Once the startup period is over, the screen will indicate the heat level 3-15.

WARNING: If the burner only produces smoke, immediately stop the startup procedure or normal mode by pressing the red icon on the key pad. Wait until the unit is completely cold before putting it back in operation.

Note: This is a mechanical device. Since it contains two fan motors and two auger motors, it is likely that you will hear sounds from your appliance, these noises are normal.

5. Selecting heat level: There is a 5 minutes time delay cycle when increasing or decreasing between each level for wood pellet and twenty 20 minutes for corn or wheat.

Fuel chart information	
Heat level	**Fuel per hour**
1	Approximate 1 lb - .45kg
2	Approximate 1.5 lbs - .68kg
3	Approximate 2 lbs - .91kg
4	Approximate 3 lbs - 1.36kg
5	Approximate 4 lbs - 1.81kg

Image 3

WARNING: Never open the main door and the ash door at the same time, this could cause a fire extinction and generate smoke in the stove.

Instruction to optimally burn wood pellets

Use the 16 holes burner. Select **WOOD PELLET** combustible (icon 7).

Recommendation: Open the air valve (only when unit is cold) to a minimum of 1/8” or 3 mm (see picture 3). The air valve is located on the side of the combustion chamber. Remove the right side panel to access the air valve. In case of ash fusion (clinker), increase the ash removal and maintain the fuel bed to 5” or 12.7 cm. Close the air valve if the ash fusion persists.

Note: Lightly tighten the top threaded disc with your hands when changing the burner. Install the ash box below the burner before installing the burner’s bottom threaded disc.

Paromax has no control over the quality or types of fuels available on the market and will assume no liability for any malfunction related to the type of fuel used.

Instructions for burning corn or wheat

IMPORTANT: Wood pellet or an agricultural products such as corn or wheat requires more attention than for wood pellets. Please follow these instructions or you may risk a failure from the ash removal system causing an accumulation or overflow in the burner and around the burner. These types of problems are your responsibility and are not considered as a malfunction but a none appropriate adjustments with the control board. Wood pellets, corn and wheat fuel have different physical characteristics such as; moisture, grain size and ash content, therefore these guidelines and instructions will help you get a better performance and understanding of your unit when using different fuels.

First time burning with corn or wheat

To familiarize you with corn or wheat, we recommend using wood pellets during the first days. When you are familiar with the functioning of the unit, you can switch to corn or wheat. Corn or wheat may leave a permanent white deposit on the glass.

Note: Paromax recommends purchasing a second ash pan when the unit is set to heat level 4 or 5 for more than 24 hours. When the ash pan is full, there is possibility of creating a clinker or a fuel overflow outside the burner. It is recommended emptying the ash pan everyday when burning agricultural combustibles.

Preparing the unit for corn or wheat

Install the **24** holes burner and close the air inlet (image 3A).
Note: Refer to the fuel bed level on page 19.

Note: Lightly tighten the upper disc with hands when changing the burner. Install the ash box below the burner before installing the burner's bottom threaded disc.

Image 3A

Clinker prevention

In many cases, the use of certain recommended fire starter gels or materials can cause the beginning of a clinker formation. In the event of a clinker formation during the first 90 minutes, you can use a "poker" to gently disturb the fuel bed (embers) to continue its operation as before.

Note: If you must open the main door while the unit is running, always wear gloves and open the main door slowly and for a very brief moment to prevent the extinction of fire

WARNING : Never open the main door (glass) and the ash door at the same time, this could generate smoke. Please inspect the door gaskets periodically.

Paromax has no control over the quality or types of fuels available on the market and will assume no liability for any malfunction related to the type of fuel used.

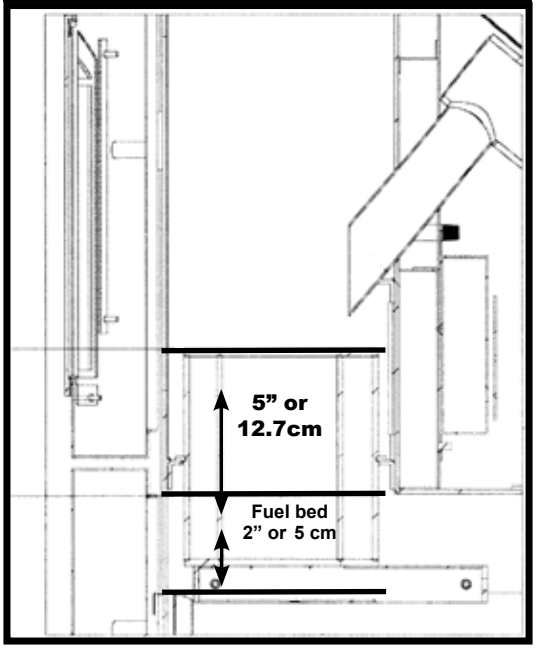
Controlling the fuel bed level (embers)

If the fuel bed (embers) is too high or too low in the burner, follow the following guidelines to help you control and stabilize the fuel bed.

How to measure the fuel bed height

Measured space between the burner top to the fuel bed should be 5” or 12.7 cm.
Note: A line is engraved inside the burner and serves as a reference.

Fuel bed (embers) height



Refer to steps A, B, C when the fuel bed remains at the burner top with settings for the combustion fan at 5 and the ash removal system at 15.

A-Gradually increase the combustion fan of 1 level until the display shows number 6.

B- Gradually increase the ash removal of 1 level until the display shows number 16.

C- Check after one hour if the fuel bed has decreased. If not, repeat steps A and B by 1 level. If necessary, you may repeat these procedures a few times. Refer to chapter Fuel consumption on page 20 and 21 if maximum settings are on the combustion fan and the ash removal.

Note: Memorize new parameters for the combustion fan and the ash removal system in order to apply them at the next start-up.

Refer to steps A, B, C when the fuel bed remains in the burner’s bottom with settings for the combustion fan at 5 and the ash removal system at 15.

A- Gradually decrease the combustion fan of 1 level until the display shows number 4.

B- Gradually decrease the ash removal of 1 level until the display shows number 14.

C- Check after one hour if the fuel bed has increased. If not, repeat steps A and B by 1 level. If necessary, you may repeat these procedures a few times. Refer to chapter Fuel consumption on page 20 and 21 if minimum settings are on the combustion fan and the ash removal.

D- For the loss of the fuel bed (embers) while burning wood pellets when the combustion fan and the ash removal system are at the minimum settings (1 and 11): Reduce the opening of the air inlet, this will help to increase the fuel bed on a long-term (4 hours) period (see Image 3 on page 17). According to the pellets used, it is possible that the air inlet shall be closed for better control of the fuel bed.

Note: Memorize new parameters for the combustion fan and the ash removal system in order to apply them at the next start-up.

Paromax has no control over the quality or types of fuels available on the market and will assume no liability for any malfunction related to the type of fuel used.

Pressure gauge adjustment (Minihelic)

The mini-helic indicates the pressure generated inside the combustion chamber while the unit is in operation. The pressure varies accordingly to the selected heat levels (1 to 5). To follow the suggested chart, press the combustion fan icon (green) indicating a plus or minus to increase or decrease pressure. 10 settings are available to calibrate the unit accordingly to the chart. The setting 5 will appear by default at each start-up.

Pressure gauge

Pressure gauge chart

Heat level	Pressure indicated on the gauge
1	Ranges from .08 to .12 W.C
2	Ranges from .13 à .17 W.C
3	Ranges from .17 à .23 W.C
4	Ranges from .30 à .35 W.C
5	Ranges from .40 à .50 W.C

Important: The pressure indicated on the chart may vary accordingly to the fuel type. The height of the fuel bed dominates over the pressure chart. The moisture and / or size of the fuel may vary the pressure.

Note: Always refer to the fuel bed (embers) height in burner before decreasing or increase the pressure displayed on the gauge.

How to Analyse fuel consumption per hour

Each heat level is factory programmed. The quantity of fuel per hour is displayed in the chart below. The length or moisture can influence the flow per hour. Wood pellets varies in length from one manufacturer to another and the moisture content and grain size also vary and can influence the flow.

Use the heat level 3 as a reference (see chart). Steps to follow: Empty the hopper and fill it with 40 lbs or 18.2 kg of fuel. Before startup, fill the measuring cup with wood pellets from another bag and start normally. Note the start time and check the level of the hopper after 16 hours. Then check every hour the level of the hopper until it is empty. A bag of 40 lbs or 18.2 kg should last approximately 20 hours on heat level 3, (40 lbs divided 2 lbs/h or 18.2 kg divided .91 kg = 20 hours)

Note: Refer to page 21 to adjust the fuel flow.

Fuel chart and timing rate

Heat level	Flow per hour (average)	Pellet ON	Pellet Off	Corn On	Corn Off	Wheat On	Wheat Off
1	1 lb - 0.45 kg	**1 sec**	**10 sec**	**1 sec**	**14 sec**	**1 sec**	**13 sec**
2	1.5 lb - 0.68 kg	**2 sec**	**12 sec**	**1 sec**	**10 sec**	**2 sec**	**17 sec**
3	2 lbs - 0.91 kg	**2 sec**	**8 sec**	**2 sec**	**14 sec**	**2 sec**	**17 sec**
4	3 lbs - 1.36 kg	**4 sec**	**11 sec**	**3 sec**	**13 sec**	**4 sec**	**15 sec**
5	4 lbs - 1.81 kg	**5 sec**	**9 sec**	**4 sec**	**12 sec**	**5 sec**	**13 sec**

How to adjust the fuel consumption on the control panel

To adjust the fuel consumption per hour: Start the unit and wait until the display shows the number 3 on display B. Press the icon 11 for 10 seconds approx, a number will appear in display A (0 by default) This mode calibrates the amount of fuel fed to the burner. This calibration may increase or decrease the amount of fuel per hour. The calibration range is from -3 to +3

Reference table for heat level 3	
If the results of the flowed time (empty hopper 40 lbs -18.2kg) is	**Ajust the combustible calibration to the numbers suggested below**
17 hours	**-3**
18 hours	**-2**
19 hours	**-1**
20 hours	**0**
21 hours	**+1**
22 hours	**+2**
23 hours	**+3**

Thermostat mode

The thermostat mode is very simple and regulates automatically the room temperature. For pellets, the heat level 1 is the minimum and the heat level 4 is used for the maximum power. For corn or wheat, the heat level 2 is used for minimum power and the heat level 4 is used for maximum power.

To enable thermostat mode, reduce the heat level at speed 1 when start up is over and wait until the room temperature drops for the thermostat to be activated by itself.

Note: There is a delay of 5 minutes between every level of power for the wood pellets and a delay of 20 minutes for the corn or wheat.

WARNING: Failure to clean frequently the unit may result in poor performance and hazardous situations. Never clean the unit when hot. Refer to combustible schedule below.

Burn-pot and combustion fan: Refer to maintenance on page 24 and 25 for soot, creosote and any ash accumulation.

Maintenance Schedule For Wood Pellets

Unit components	Each start up	Every 2 Weeks	Monthly	Every 2 months
Remove ashes in burn-pot	X			
Check the ash removal system	X			
Check battery contacts and performance	X			
Vacuum out the combustion chamber (step 1)		X		
Empty ash pan		X		
Clean the burn-pot jets			X	
Clean the convection pipes system			X	
Clean the the combustion fan (flywheel)			X	
Clean the combustion chamber (step 1 and 2)				X
Clean the convection fan (flywheel)				X
Inspect chimney joint's seals				X
Clean the chimney				Annual

Maintenance Schedule For Corn, Wheat

Unit components	Each start up	Every 2 Weeks	Monthly	Every 2 months
Remove ashes in burn-pot and clean the inner wall of burn-pot (see burn-pot maintenance)	X			
Check the ash removal system	X			
Empty ash pan	**Every 2 days**			
Check battery contacts and performance	X			
Vacuum out the combustion chamber (step 1)		X		
Clean the burn-pot jets		X		
Clean the convection pipes system		X		
Clean the the combustion fan (flywheel)			X	
Clean the combustion chamber (step 2)			X	
Clean the convection fan (flywheel)				X
Inspect chimney joint's seals				X
Clean the chimney				Annual

IMPORTANT: Before each start up, it is recommended to empty the ashes and disposal of ashes should be placed in a metal container with a tight fitting lid. The closed container of ashes should be placed on a noncombustible floor or on the ground, well away from all combustible materials, pending final disposal. If the ashes are disposed of by burial in soil or otherwise locally dispersed, they should be retained in the closed container until all cinders have been thoroughly cooled. Other waste shall not be placed in this container. Ash container needs to be moved outdoors, immediately. Keep the metal container far of the children.
WARNING: Embers can stay hot for a long time after the fire has been extinguished.

Tools required for maintenance
Ratchet and extension of 6'' / 5 cm
Socket of 1/4" / 6 mm, 5/16" / 8 mm, 11/32" / 9 mm, 7/16" / 11 mm and 9/16" / 14 mm
Allen keys of 1/8" / 3 mm, 5/32" / 4 mm and 3/16" / 5 mm
Flathead screwdriver, Phillips head screwdriver # 2 (star)
Pliers for retaining ring
Hammer
Drill and a 3" / 7.6 cm round steel brush
Long bristle toothbrush or long bristle steel brush
Commercial vacuum cleaner with filter
High temperature lubricant anti-size copper base type

M1- Combustion chamber maintenance

STEP 1: Only when the unit is cold, we suggest using a filter vacuum cleaner to remove ashes **(do not use a household vacuum cleaner or central vacuum type)** accumulated around and in the burner (see image 4). Use a bristle brush to remove the ashes on the convection system pipes and two air inlets (see image 5). Clean the inside of the door.
Note: Use a special bag or filter to eliminate any ashes leaks in the room.

Step 2: For a deep cleaning, after step 1, open the four clean-out doors located inside the combustion chamber (see image 6). It may be necessary to use a hammer to lift these doors upwards and tap gently on side walls to remove the accumulated ashes that are not accessible with the vacuum.

Note: Before reinstalling the clean-out doors, see the section on the combustion fan maintenance chapter M4 on page 25

Image 4

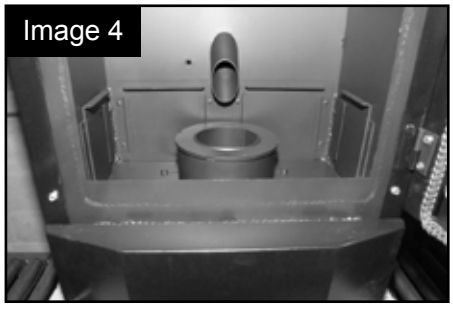
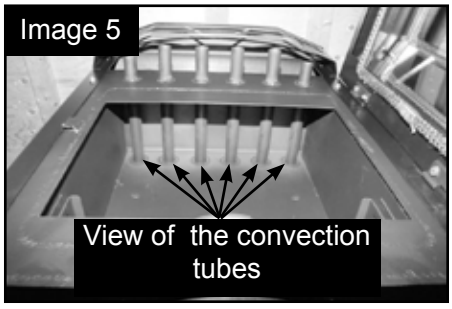
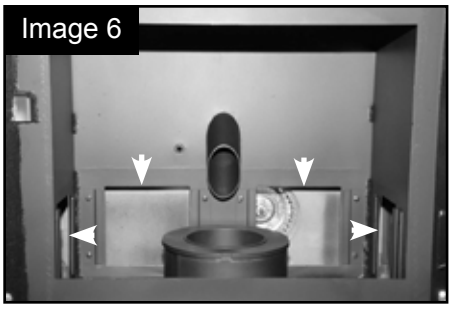


Image 5



View of the convection tubes

Image 6



M2- Burn-pot maintenance

Step 1: Tap counter-clockwise with a flat screwdriver on one of the teeth of the threaded ring. Small strokes are recommended (see image 7).

Step 2: Unscrew counter-clockwise the cylinder with gloves for better grip (see image 8).
Note : If the cylinder does not turn, loosen the two bolts supporting the ash box beneath the burner by using a 9/16" or 14 mm wrench (see image 13 on page 25).

Step 3: To clean the burn-pot holes, use a 1/8" or 3 mm rod from outside to inside (see image 9).
Note: Make sure you put the burner tube back in the right direction: the angled holes upward and straight holes down.

Note: Install the ash box before installing the burner tube

Step 4: Clean the threads before installing the burner (steel brush). See image 10 and 11. Lubricate threads with high temperature grease. Screw lightly the cylinder and ring clockwise See image 8 and 12.

Note: To replace the burner: Always use original Paromax parts available from your dealer.

WARNING: PROTECT YOUR EYES WITH SAFETY GLASSES IF USING A DRILL EQUIPPED WITH A STEEL BRUSH.

Note: Tighten the threaded ring with only your hands when cleaning the burner during maintenance. Do not use any tools for tightening.

Image 7

Image 8

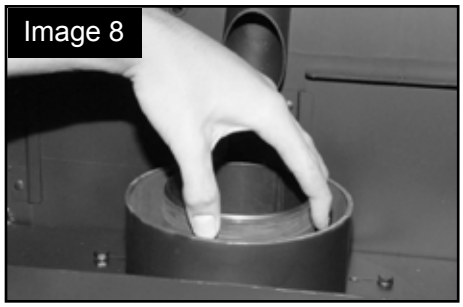


Image 9

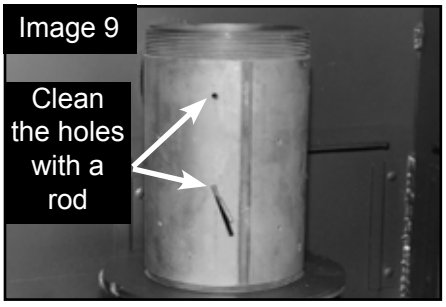


Image 10

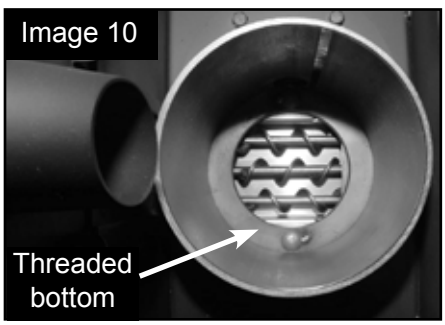


Image 11

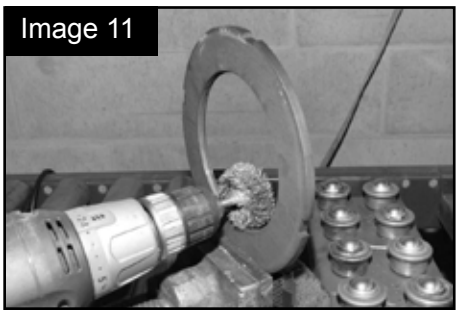


Image 12

M3- Ash removal system maintenance

STEP 1 : Evaluate the three ash auger screws condition by using a light (see image 10 on page 24). There is a possibility that the sugar released by burning corn or wheat adheres to the ash screws, causing improper ash removal.

STEP 2 : To clean the ash box, unscrew the 2 nuts under the burner using a 9/16" or 14 mm key or socket (see image 13). Use a container with hot water that can receive the ash box. Soak the ash box for half hour (see image 14) and peel the sticky deposits by using a flat screwdriver. Soak again if necessary.

STEP 3 : Lubricate the three sprockets with high temperature grease before re-installing (see image 15). When installing the ash box, push completely to the back of the unit and then go forward 1/8" or 3 mm before completely tightening the nuts.

Note: If the mechanism jams, replace the 3 sprockets with part #DP-05-045. Use a 1/8" or 3 mm Allen key to unlock the screws on each sprocket**.** Leave a slim gap between sprockets and bracket.

Image 13

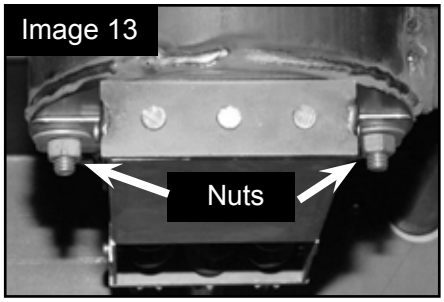


Image 14

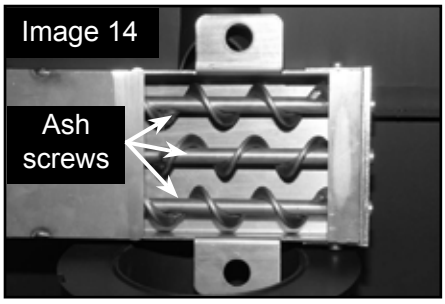


Image 15

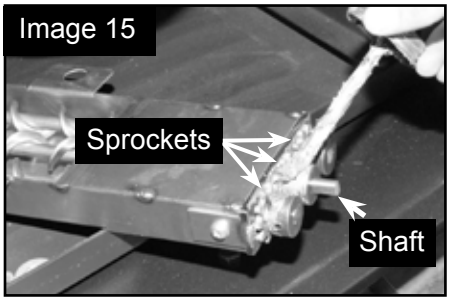
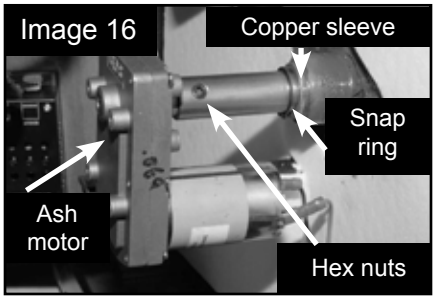


Image 16



M4- Combustion fan maintenance (connected to chimney)

Soot and fly ash formation: The combustion products contain small particles of fly ash. Fly ash may accumulate in the exhaust venting system and restrict the flue gases from flowing. . **The exhaust venting system should be inspected at least once every year to determine if cleaning is necessary.**

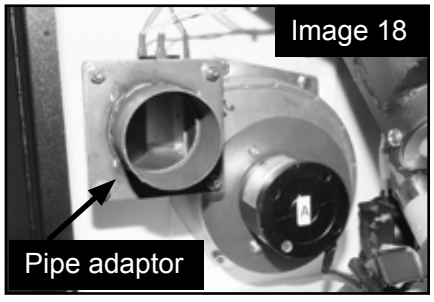
You can clean the flywheel directly from the front of the stove, by accessing the clean out door on the right side behind the burn-pot (see image 6 on page 23). Use long bristle brush to clean each space between the wings (see image 17).

Note: Cleaning the wheel increases the pressure indicated on the gauge and reduce or eliminate any vibration caused by the accumulation of ashes.

Image 17

To remove the combustion fan on the unit: Disconnect all A connectors (see image 32 on page 31) and unscrew the four bolts and nuts (socket 7/16" or 11 mm) for separate the pipe adaptor on the pellet vent (see image 18). Now unscrew the 4 nuts on the housing for remove the fan (refer the image 18). Replace both gaskets before you re-assembling the fan.
(part number #EU-08-481 and EU-08-482).

Image 18



M5- Convection fan maintenance

Remove the side panel (see image 19) to access the convection fan (see image 20). Use a bristle brush to clean the spaces of each wing of the flywheel (see image 21), which will help to increase the air flow blown into the room

Note: The cleaning of the wheel increases the volume of hot air blown into the room. To remove the convection fan: unplug all B connectors and remove the two nuts 7/16” or 11 mm (see image 20).

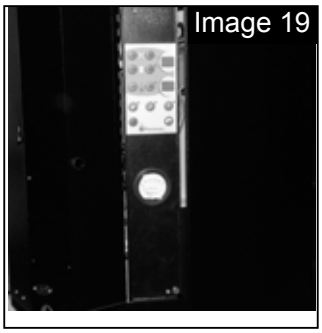


Image 19

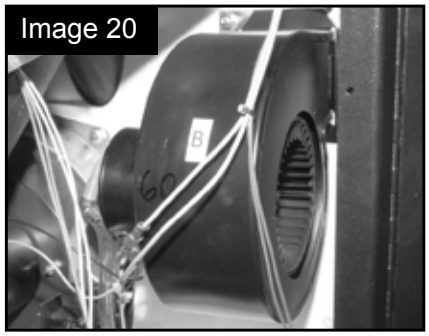


Image 20

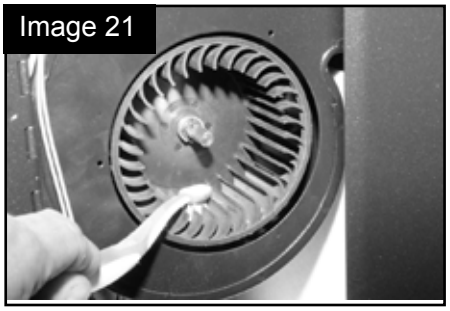
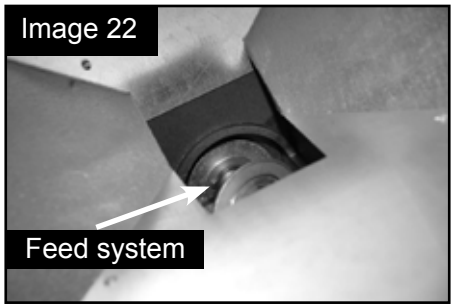


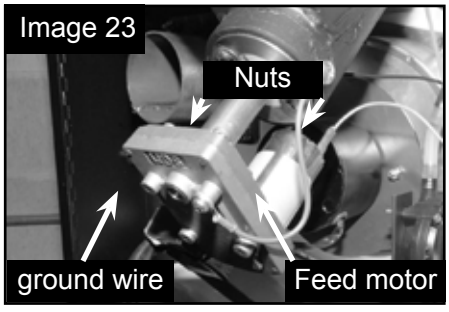
Image 21

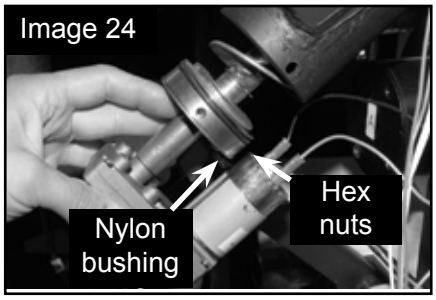
M6- Feed system maintenance

At least twice a year or more often, empty the hopper to clean fine particles accumulated at the bottom with a vacuum cleaner (refer to image 22). To replace the feed motor (part #DP-05-460), remove the back panel and unlock the set screw on the shaft with 5/32” or 4 mm Allen key. To replace the nylon sleeve: Unscrew the two bolts (7/16” or 11 mm) on the feed plate holder and slide out the feed auger screw. Use pliers to take off the back retaining ring and replace the bushing.

Note: Reinstall the vacuum switch holder and the ground wire connected on the plate holder bolts: make sure the vacuum switch is installed vertically.







M7- Glass replacement

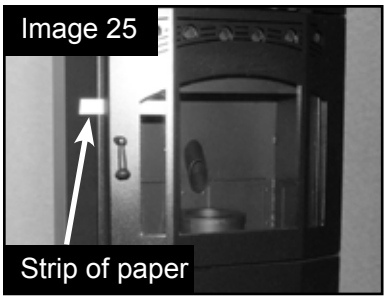
It is recommended to replace the glass on your unit with a 3/16” or 5 mm pyro-ceramic high temperature glass (1600F or 870 C) if cracked or broken.

Use any type of gloves suitable to handle broken glass and carefully remove any pieces of glass from the door frame. Dispose of all broken glass properly.

To replace glasses: Unscrew the 8 retaining nuts and remove brackets (11/32” or 9 mm socket). Replace the gasket if needed (Part #EU-05-035-1). Properly lay the new glass centered in the middle joints and do not over tighten the nuts on the brackets.

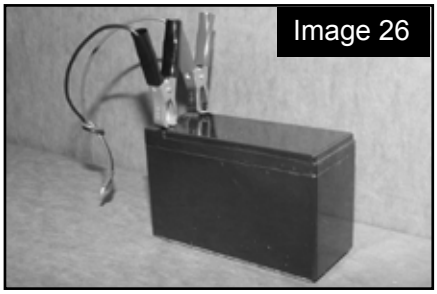
M8- Gaskets

For a better air tightness check gaskets of the main door and ash door every two months and at the beginning of each season. How to verify: Use a piece of paper (1" or 2.5 cm wide) between the door and the unit (image 25). If there's very little resistance when pulling the paper, pinch the gasket with your fingers to regain roundness. Repeat it in different locations around the doors. If you must replace your gaskets, use only a dense gaskets with high temperature silicone (600F or 315C) available from your dealer.



M9- Battery

Check if the grips are well connected on the battery poles (red to red and black to black). Check periodically if the unit will run off the battery. Start the unit without a flame (cold) and disconnect the AC power from the wall. Clean the battery's connection if the unit stops during the test.
Note: Never place a battery directly on concrete as this can damage or discharge it.



M10- Burner

During maintenance, if the burner is difficult to screw, check the burner's cylinder to identify damaged threads (see image 9 on page 24). To repair threads: Use a hacksaw to correct threads deformation or any metal excess. Go to chapter M2 at page 24 for dirty threads.

M11- Cleaning the Unit

When the unit is cold. To clean the glass and remove ash and fly ash, use a standard cleaning product. To remove creosote on glass, refer to your dealer for adequate products. Use a soft and non abrasive cleaner to clean paint parts.

M12- Creosote formation and need for removal

It is imperative to do a complete cleaning of the chimney before the beginning of each season. Guidance on minimizing creosote formation and the need for periodic creosote removal. The chimney should be inspected periodically during the heating season to determinate if a creosote build-up has occurred. If a significant layer of creosote has accumulated (1/8" / 3 mm and more) it should be removed to reduce the risk of a chimney fire. Open the T clean out or unplug the unit on the chimney and use a light to inspect the creosote build-up inside the pellet vent. To remove the creosote, use a 3" / 7.6 cm or 4" / 10.2 cm brush to clean the chimney. We suggest cleaning by a professional.
Note: Refer to maintenance chapter M1 and M4 to remove any creosote accumulation.

WARNING: In case of creosote fire, immediately shut the unit off and call your local fire department.

ELECTRICAL TROUBLESHOOTING CONTENT

Error code	Possible cause	Possible Solution
E1	1- Failed to start up properly. The unit has not reached 130 F or 54 C degrees and is in cooling mode.	1- Not enough fuel or gel in the burner. the alcohol content in the gel is no good.
	2- The hopper is empty of fuel and the unit is in cooling mode.	2- Fill the hopper and activate the manual feed.
	3- If the Hopper is not empty.	3- Refer chapter T2.
E3	Input voltage less than 10.5 volts DC.	Verified the output of the power supply or the battery connections. Refer to chapter T4 and T12.
E5	The unit is very hot and the fans run at full speed. The high temperature sensor is activated.	The convection fan may have stopped or the fly-wheel is dirty. The sensor is defective. Refer to chapters T10, M5 or T3
E6	No AC power and without the use of the battery.	Hot unit will be in cool down mode automatically when the AC power returns. Refer to chapter T4.
F5	Feeding system fuse is burnt.	Feed system is jam, refer to chapter M6 before replace the fuse on chapter T6.
F6	Ash removal system fuse is burnt.	Ash system is jam, refer to chapter M3 and before replacing the fuse see chapter T7.
C5-FF	The main board display C5-FF and all the motors are stopped.	Disconnect the battery and the AC power on the unit for a minute. Restart the unit when is cold. Over charge on of the motors
Blank screen	The unit is very hot and the fans run at full speed. The high temperature sensor is activated.	The convection fan may have stopped or the fly-wheel is dirty. The sensor 300F is defective. Refer to chapter T3
E4-E7-E8-E9-F1-F2-F3-F4	Fault on the main board.	Major breakdown of the main board. Replace the main board.
	The unit is still running and cold without an error code.	Replace sensor 130F protection, see chapter T2.
	The unit is still running and cold and the screen shows C2.	Replace sensor 110F protection, see chapter T14.
	The unit is locked at heat level 1 or at heat level 4.	Thermostat mode is enabled: refer to page 21 for thermostat functions.
	The unit does not start, the screens are black and the lights 5VDC and 12VDC are extinct and the light 1 is lit. (see the picture 28)	Inrush current on main board. The main fuse is burned. Replace the 10 amps fuse (fast acting) on the socket F17, see image 28.

ELECTRICAL TROUBLESHOOTING GUIDE

WARNING : Always unplug the AC source (wall outlet) of your unit before performing any maintenance or repair.

T1- The unit will not start

Make sure the power cord is plugged into the unit and wall outlet. Check if the power converter green light is on. If not lit up, refer to Chapter T15.

Note: Unplug the AC current and let the battery operate the unit when testing your components.

T2- Unit stops and displays E1

If the hopper is not empty, verify if theThermo-disk 130F is not defective. Relight when the unit is cold and wait 50 minutes to see if the same error code reappears. Replace the Thermo-disk (see image 33 on page 32) if the error code reappears. Use 1/4” or 6 mm socket to remove the thermo-disk.

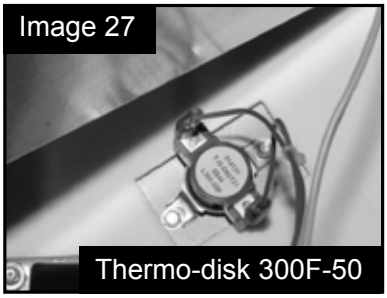
Note: Unplug the AC current and let the battery operate the unit when testing your components.

T3- The unit is very hot and display E5

E5 is displayed on the screen: Open the left door and remove the side panel (see image 20 on page 26) and verify that the 2 green wires are connected to the protection (Thermo-disk) 300F (see image 27). Visually inspect if the convection flywheel rotates (see picture 19 on page 26). If the fan rotates, the flywheel needs to be cleaned (refer to section M5 on page 26). Refer to section T10 if the fan is not running.

Note: Unplug the AC current an let the battery operate the unit when testing your components.

Image 27



Thermo-disk 300F-50

T4- Unit displays E3

E3 error code: The battery voltage is below 10.5 volts or the power supply is defective. Refer to Chapter T12 to analyze the converter and Chapter M9 for battery maintenance.

T5- Unit displays E6

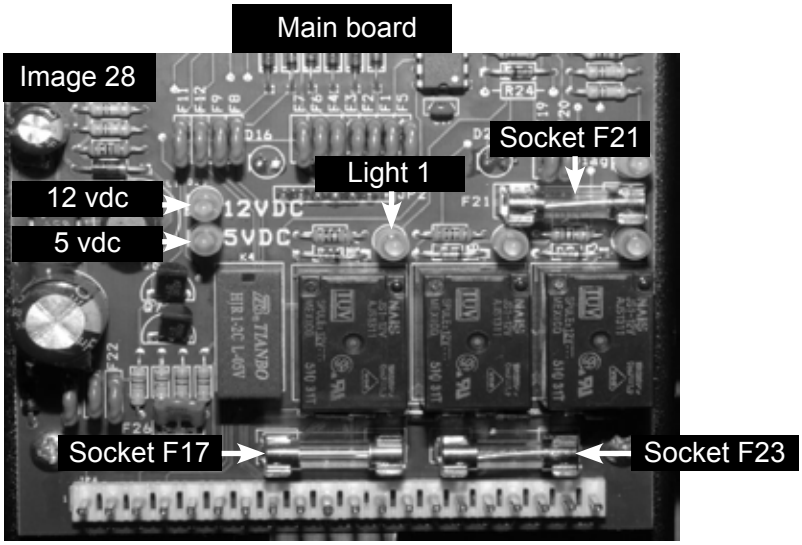
Power failure without a battery connected and the unit is still hot. E6 will be displayed at the return of AC power. Check that the convection fan runs while the error code is displayed on the screen. Refer to chapter T10 if the fan doesn't turn.

T6- Unit displays F5

The feed motor is not functioning and the display show F5 code: Replace the **500 mA** fuse (slow blow) in F21 socket (see image 28). Remove the side panel to access the control panel and replace the fuse (refer to image 19 of page 26). Important: Refer to chapter M6 to clean the feed system before restarting the unit. Note to check motor operation: Activate manual feed and check if the shaft of the feed system is running.
Note: Always unplug the AC source (wall outlet) and DC source (battery) before replacing any fuses.

T7- Unit displays F6

The ash motor is not functioning and the display show F6 code: Replace the **500 mA** fuse (slow blow) in F23 socket (see image 28). Remove the side panel to access the control panel and replace the fuse (refer to image 19 of page 26). Important: Before restarting the unit, refer to Chapter M3 to clean the ash removal system. Note to check the motor: Activate manual feed and check if the ash removal system is running.
Note: Always unplug the AC source (wall outlet) and DC source (battery) before replacing any fuses.



T8- The feed system not turn

Start the manual feed and close all doors of the unit and verify that the pressure gage indicates a minimum of 0.3 W.C. Refer to chapter T9 if the pressure gage does not indicate any pressure, remove the side panel to reach the pressure switch (see picture 29) and check the connection of tubes between the pressure gauge, the pressure switch and to the unit. If the feed motor does not turn (see picture 23 at page 26), verify the status of the pressure switch and the switch of the hopper. Disconnect the two yellow wires of the pressure switch and disconnect the two yellow wires of the hopper switch, which is paired. Connect together the two wires that come from the control panel with a paper clip or other metal part. Start again the manual feed. If the motor runs, replace one of two switches. If the motor is not running, check the status of each blue and red terminals or the motor is defective.

Note: Unplug the AC current and let the battery operate the unit when testing your components.

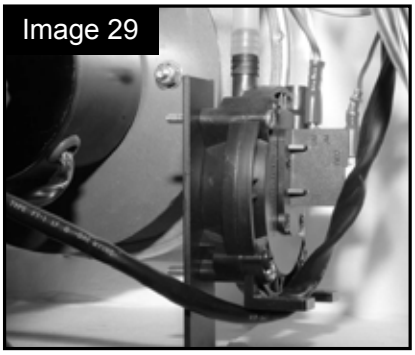


Image 29

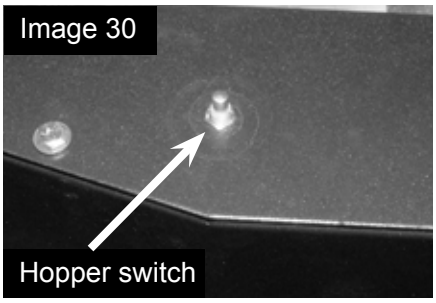


Image 30

T9- Combustion fan problems

No pressure: The fan is defective. Check the connection of the fan wires identified by A (see image 32). Cold start the unit and open the right side door to see if the cooling wheel turns (see figure 31). Replace the combustion fan if it is not running.

Low pressure: The combustion fan wheel is obstructed by ashes (refer to section M4). Check the seals for gaskets leakage (refer to Chapter M8). Refer to chapter M13 to determine whether the chimney is not obstructed by ashes.

Note: Unplug the AC current and let the battery operate the unit when testing your components.

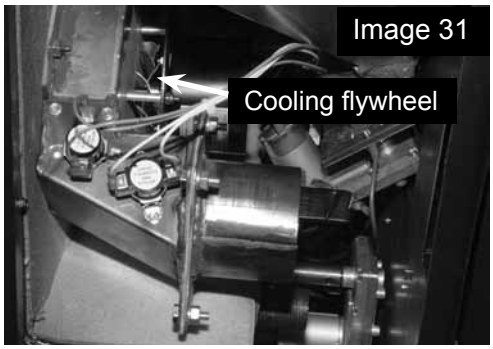


Image 31

T10- Convection fan problems

No ventilation in the room confirmed a broken fan: Check the connection of the fan wires identified by B (see image 32). Remove the left side panel to visually check that the wheel turns (see figure 21). Cold start the unit and wait 4 minutes and check that A2 appears and verify that the fan is running. Replace the convection fan if the wheel does not rotate.

Note: Unplug the AC current and let the battery operate the unit when testing your components.

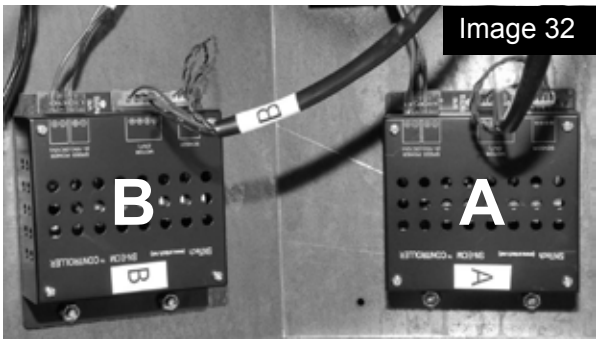
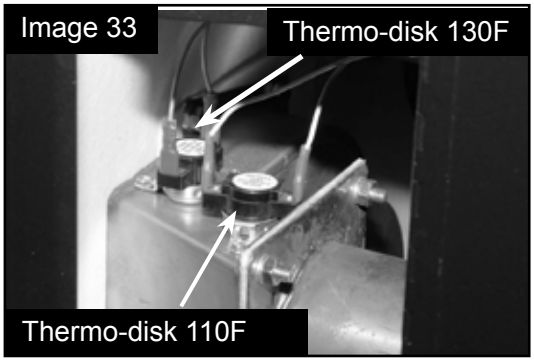


Image 32

T11- The unit is cold and fans are running

Open the right side door and unplug one of the two white wires connected to the Thermo-disk 110F (see image 33). If the fans stop, replace the Thermo-disk 110F.
Note: Unplug the AC current and let the battery operate the unit when testing your components.

Image 33



T12- No 12 volts leading to the main board

A- The green light is off (refer to image 37). **First unplug the unit from the AC source.** Remove the cover on the converter, lift the plastic pin using a very thin blade (refer to image 34). Loosen the case screw, (refer to image 35), then lift up the box. Replace the 5 amp fuse, (refer to image 36). Connect the unit to the AC source and verify that the green light and the screen are lit. Replace the converter if the green light is off.

B- Battery Trouble: Check if the battery is charged and properly connected on red and black terminal clips supplied with the unit (12.8 volt). If no abnormality on the battery and connections: Check the DC area 15 amp fuse (see image 36) and replace if necessary.

Note: Clean the connections of the battery for a better connectivity. (refer to the picture 26 to the page 27).

Image 34

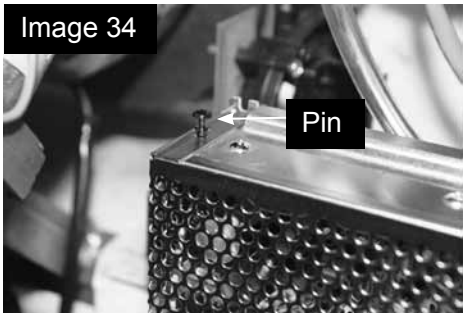
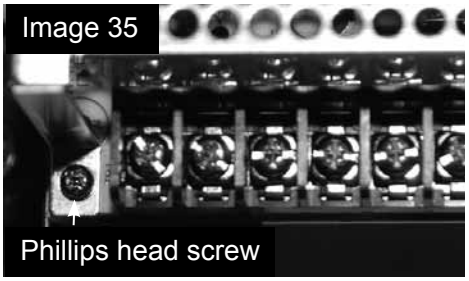


Image 35



These fuses and labor are not covered by warranty.

Image 36

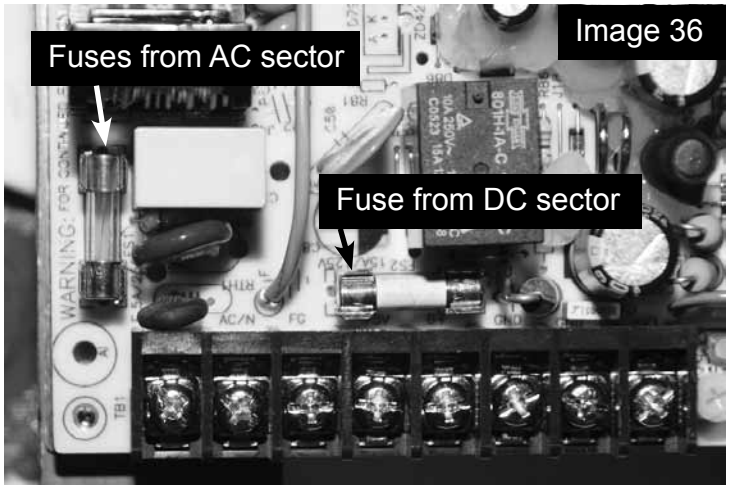
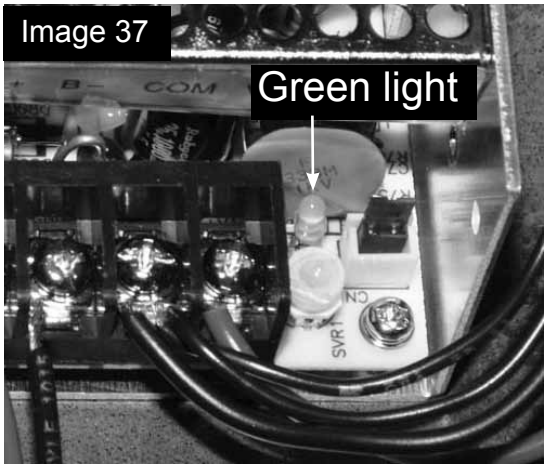


Image 37



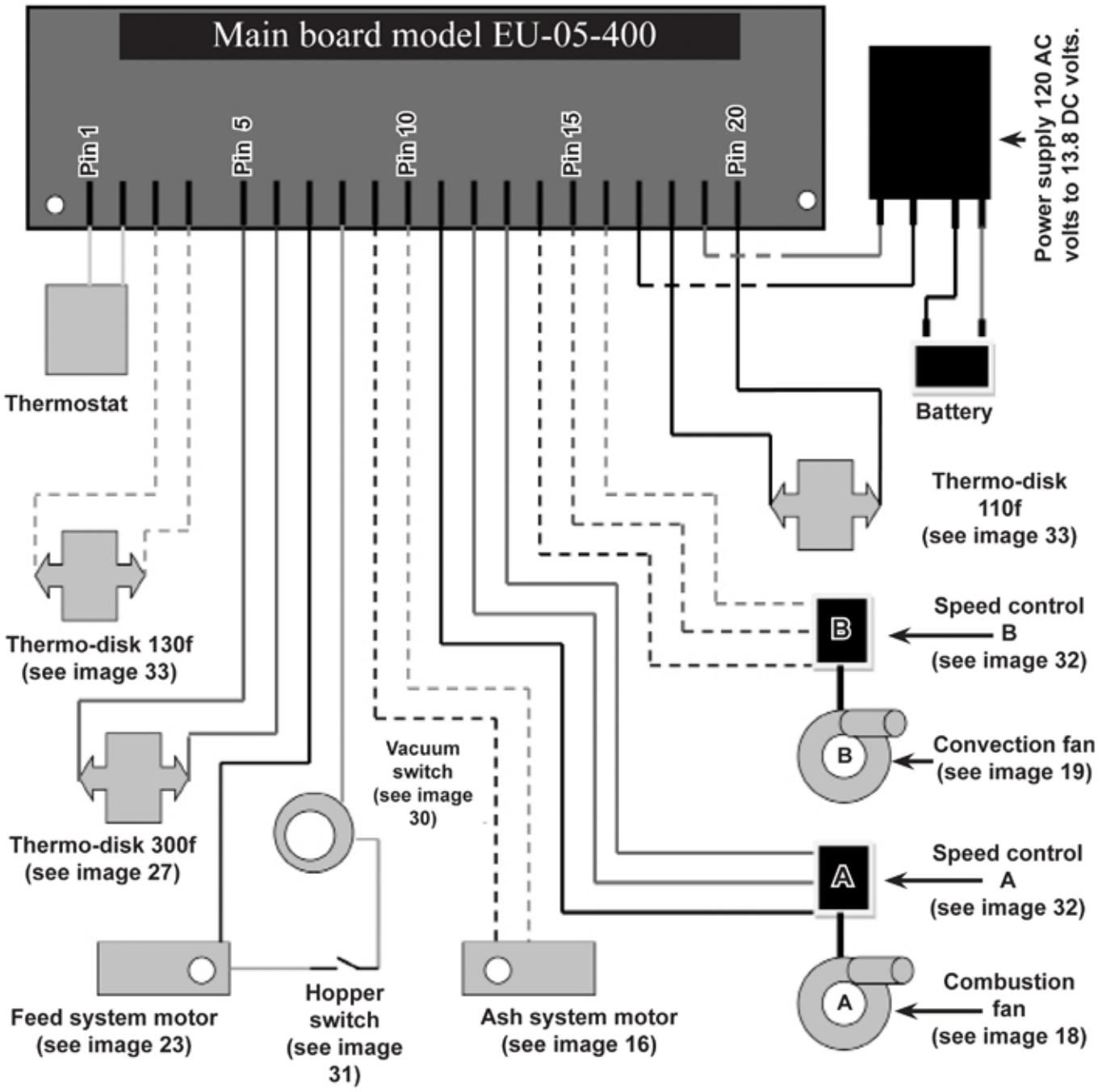
T13- Ash removal system

A noisy ash removal may need to be lubricated. Refer to chapter M3 on page 25.

EUROPA TECHNICAL DATA

Minimum combustion power	8,500 Btu / hour = 1 lb/h - 2.5 KW / h = .45 kg/h
Maximum combustion power	34,000 Btu / hour = 4 lb/h - 10 KW / h = 1.81 kg/h
Combustion efficiency	86% net efficiency
Power of the combustion fan	25 to 45 cubic feet/min - .7 to 1.3 m3 / min
Power of the convection fan	35 to 125 cubic feet/min (cfm) - 1 to 3.5 m3 / min
Hopper capacity	75 lbs - 34 kg
Certification	EN 14785, UL, ULC-C1482, EPA, ASTM E1509, 84-HUD
Emission of particles in the atmosphere	0.6 g/h
Power settings	5 levels
AC voltage required	120 volt to 240 volts / 50 or 60 hertz
Power consumption on 120 volts AC	Min .25 amps / Max .65 amps
Power consumption on 12 volts DC	Min 1.8 amps / Max 4.5 amps (13.8V)
Standby power consumption on 120 volts AC	0.07 amps
Standby power consumption on 12 volts DC	0.03 amps at 13.8 volt
Height	40 1/2" - 102.9 cm
Width	26 1/2" - 67.3 cm
Depth	25 1/4" - 64.1 cm
Weight	305 lbs - 138 kg
Type of chimney for wood pellets	Double wall PL stainless steel
Type of chimney for corn or wheat	Double wall PL stainless steel +
Inside diameter of the chimney	3" - 7.6 cm
Patent	US 6,336,449

Paromax reserves the right to change any of the specifications mentioned above without prior notice



Color Wires and pins number

Pin 1 & 2 = purple wire (thermostat)
Pin 3 & 4 = orange wire (thermodisk 130f)
Pin 5 & 6 = green wire (thermodisk 300f)
Pin 7 = black wire (feed motor)
Pin 8 = yellow wire (feed motor)
Pin 9 = black wire (ash motor)
Pin 10 = gray wire (ash motor)
Pin 11 = black wire (combustion fan)
Pin 12 = brown wire (combustion fan)

Pin 13 = red wire (combustion fan)
Pin 14 = black wire (convection fan)
Pin 15 = blue wire (convection fan)
Pin 16 = red wire (convection fan)
Pin 17 = black wire (main input)
Pin 18 = white wire (thermodisk 110f)
Pin 19 = red wire (Main input)
Pin 20 = white wire (thermodisk 110f)

Contact an authorized dealer for the listed parts. Does not use substitute parts. Use of unapproved parts may result in poor performance and endanger your safety and void the warranty.

Description	No. pièces
Main board 20 pins	EU-05-400
Membrane	EU-05-420
Main cable	EU-05-431
Fuse 500 ma slow blow (F21, F23)	RA-10-410
Fuse 500MA fast acting (sockets F17)	RA-10-413
Thermo-disc 110F (white wire)	EU-05-450
Thermo-disc 130F (orange wire)	EU-05-451
Thermo-disc 300F (green wire)	EU-05-452
Vacuum Switch (Gold magnetic)	DP-08-440
Auger feed or ash motors (Sgmada)	DP-05-460
Power supply (12 volts DC with charger)	DP-05-490
Combustion fan (Sn-Tech)	EU-05-400
Combustion flywheel	EU-02-480-7
Combustion fan gasket (white)	EU-08-481
Pipe adaptor gasket (white)	EU-08-482
Convection fan (SN-Tech)	EU-05-470
Convection plastic flywheel	DC-98-470-2
Speed control for combustion or convection fan	EU-05-480-1
Burner (threads) for **Wood Pellet**	EU-10-580
Burner (threads) for **Corn and Wheat**	EU-10-581
Top ring with threads	EU-10-590
Feed auger screw	EU-08-168
Nylon Bushing / feed system	EU-05-167-1
Trust washer	EU-05-168
Ash assembly kit	EU-08-140
Center ash screw	EU-08-147
Left or right ash screw	EU-05-147
Sproket	DP-05-045
Brass bushing (ash system)	RA-10-660
Ash shaft driver (motor to the ash box)	RA-10-665
Ash pan	EU-02-150
Main black door (Assembly parts not include)	EU-05-200
Ash black door (Assembly parts not include)	EU-05-230
Wood handle black (main door)	EU-05-241
Wood handle black (ash door)	EU-05-241-2
Door handle black (metal)	EU-05-241-1
Door Latch	EU-05-242
Center glass Robax 5 mm	EU-05-245
Side glass Robax 5 mm	EU-02-167
Main door gasket (5/8" X 66" or 1.6 cm X 167 cm)	EU-05-030-1
Ash door gasket (5/8" X 53" or 1.6 cm X 134 cm)	EU-05-030-2
Glass gasket kit	EU-05-035-1
high temperature silicone 600F ou 315C	EU-05-042
Manometer gauge (range 0 to .05 W.C)	EU-05-445

Lifetime Limited Warranty

Time Period

PAROMAX offers **5 YEAR warranty on parts and 1 YEAR on labor**, against manufacturing defects on the **steel structure** of the device.

PAROMAX offers **2 YEAR warranty on parts and 1 YEAR on labor**, on all the **electronics components** (convection and combustion fans, the feed & ash motors, power supply, vacuum & hopper switch, electronic boards, key pad).

PAROMAX offers **1 YEAR warranty on parts of the ash-removal system and the burner**.

Limitations, Exclusions And Claim Procedure

The warranty starts at the purchase date of the device.

Not cover by labor, charge for service call, diagnosis problem at consumer home and traveling expenses.

All parts or elements device which, according to us, carries traces of defect, will be repaired or replaced, as chosen from PAROMAX, via a dealer or an approved representative, in the condition which the replaced part is returned to PAROMAX by mail with no value, listed defective parts.

Until the defective parts can be examined in order to evaluate the presence of a manufacturing defect, the spare parts will be temporarily charged to you and refunded after review.

The dealer is responsible for the implementation of the warranty and all service on PAROMAX products. PAROMAX will not be held responsible for the results or the labor costs done by an unauthorized distributor or technician.

At anytime, PAROMAX reserves the right to inspect the defective part of the product being the object of a complaint.

All complaints must be transmitted to PAROMAX by an authorized dealer. It is necessary and essential that any complaint presented includes all information making it possible to initiate the procedure, i.e., the name of the customer, the date of purchase, the model, the serial number, the object of the request and the claimed spare parts. Without this information, the complaint will not be valid.

***Parts under warranty are shipped ground service.

Not Covered

The warranty does not cover the gaskets, painting or the ornaments.

In any moment, PAROMAX will not be held responsible for any consequential damage whose cost exceeds the original price of the device.

PAROMAX is under no obligation to improve or modify an already manufactured device. No modification or update will be done on existing devices.

PAROMAX will not be held responsible for travelling expenses for maintenance. The installation and the constraints related to the environment and the service by the users are not the responsibility of the manufacturer and are thus not covered by the provisions of this warranty.

Signs of negligence or misuse are not covered by the provisions of this warranty.

The warranty does not cover parts or elements that have been modified or transformed in some manner or according to us were subject to improper use, lack of maintenance, inadequate installation, negligence or accident, inversion to chimney repression caused by environmental or geographical conditions, bad ventilation, excessive tilting or negative air pressure caused by mechanical systems like a heating appliances, ventilators, driers, etc.

The damage caused to the stove and to spare parts during transportation is subjected to complaint against the carrier on behalf of the retailer and are thus not covered by the present warranty.

PAROMAX will not be held responsible for natural disasters or terrorist acts that can cause a faulty operation of the device.

The working problems caused by an error of the user are not covered by the present warranty.

The joint use of a product manufactured or provided by another manufacturer with your device, without the prior approval of PAROMAX, could cancel the present warranty.

Any modification causing leaks of the device or to the ventilation system is not PAROMAX responsibility and is thus not covered by the present warranty.

Any other type of fuel excluding wood pellets, wood pellets with high ash content, corn and wheat used in this unit invalidate the warranty.

Your Responsibilities

The unit, including any and all accessories, must be installed, operated, and maintained in accordance with all instructions provided in the owner's manual and any additional codes or regulations of local authorities.

Use the factory-build chimney conforming to CAN/CSA-B365-01